

Service Manual

ORDER NO. RRV1919

DVD LD PLAYER

DVD LD PLAYER

0 1

Refer to the service manual RRV1871 for DVL-909/KU.

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

| Туре | Model | Power Requirement | Remarks |
|-----------|--------|-------------------|-------------|
| . , , , , | DVL-91 | | riciiiai no |
| KU/CA | 0 | AC120V | |

1. CONTRAST OF MISCELLANEOUS PARTS

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The A mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.
 Ex. I When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

 $560 - 56 \times 10^{1} - 561 - RD1/4PU 561 J$ $47k + 47 \times 10^{3} + 473 - RD1/4PU 473 J$ 0.5 + R50 - RN2H R 50 K 1 + 1R0 - RS1P 7 R 0 K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

 $5.62k - 562 \times 10^{1} - 5621 - RN1/4PC[5]6[2]IF$

• Reference Nos. indicate the pages and Nos. in the service manual for the base model.

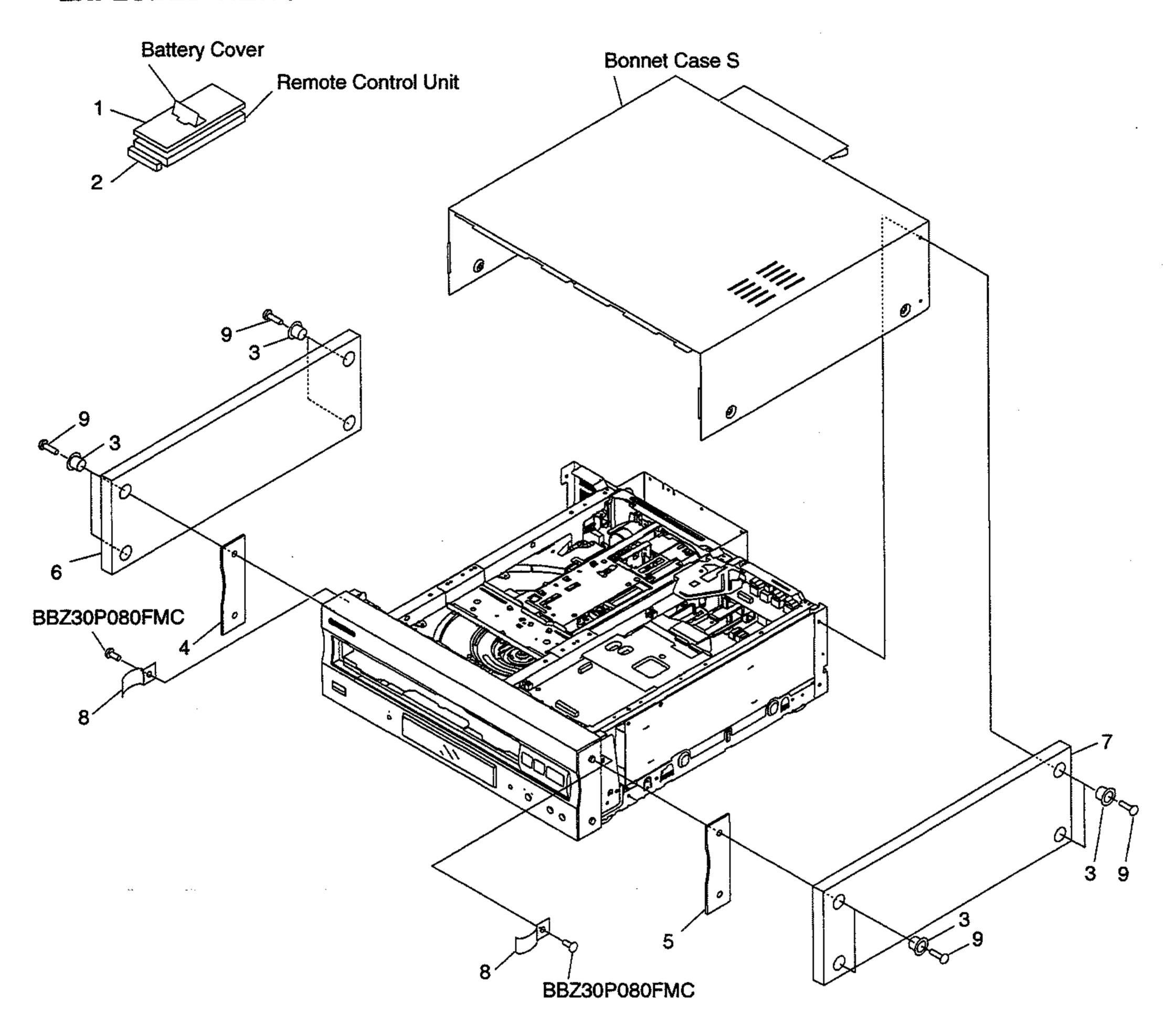
■ CONTRAST TABLE

DVL-91/KU/CA and DVL-909/KU are constructed the same except for the following:

| Ref. | Mork | Symbol and Becorintian | Par | t No. | Domorko |
|-------|------|----------------------------------|------------|--------------|---------|
| No. | Mark | Symbol and Description | DVL-909/KU | DVL-91/KU/CA | Remarks |
| | NSP | FLKY Assy | VWM1799 | VWM1803 | |
| P5-13 | | FLKB Assy | VWG1887 | VWG1891 | |
| P3- 1 | NSP | Dry Cell Battery (R6P,AA) | VEM-013 | Not used | |
| P3- 1 | NSP | Dry Cell Battery (R03,AAA) | Not used | VEM-022 | |
| P3- 2 | | Video Cord (L=1.5m) | VDE1048 | VDE1024 | |
| | | S Video Cord (L=2m) | Not used | VDE1013 | |
| P3-3 | | Audio Cord (L=1.5m) | VDE1033 | VDE1023 | |
| P3-6 | : | Remote Control Unit (CU-DV018) | VXX2549 | Not used | |
| P3-6 | | Remote Control Unit (CU-DV017) | Not used | VXX2562 | |
| P3- 7 | | Battery Cover | VNK3703 | DNK2286 | |
| | | Case (Below) | Not used | VNK2062 | No.1 |
| | NSP | Filter | Not used | VNK2063 | No.2 |
| P3- 9 | | Operating Instructions (English) | VRB1186 | VRB1190 | |
| P3-11 | NSP | Warranty Card | ARY1044 | ARY1026 | |
| P3-13 | | Pad F | VHA1206 | VHA1214 | |
| P3-14 | | Pad R | VHA1207 | VHA1215 | |
| P3-15 | 1 | Packing Case | VHG1722 | VHG1738 | |
| P4- 1 | | LD Tray Assy | VXA2173 | VXA2318 | |
| P4- 5 | | CD Tray | VNK3922 | VNK3923 | |
| P4-17 | | Bonnet Case S | VXX2561 | VXX2570 | |
| | | Wood Coller | Not used | PNW1238 | No.3 |
| | | Gold Mole L | Not used | VAH1277 | No.4 |
| | | Gold Mole R | Not used | VAH1278 | No.5 |
| | | Side Wood L | Not used | VAP1030 | No.6 |
| | | Side Wood R | Not used | VAP1031 | No.7 |
| | | Earth Plate | Not used | VNE1518 | No.8 |
| | | Screw | Not used | IBZ40P200FZK | No.9 |
| P5- 1 | | Front Aluminum | VAH1276 | VAH1281 | |
| P5- 3 | 1 | Panel Base | VNK4070 | VNK4216 | |
| P9- 1 | NSP | Shassis | VNA1887 | VNA1955 | |
| P9-26 | | Rear Panel R | VNA1892 | VNA1956 | |
| P9-27 | | Rear Panel L | VNA1907 | VNA1927 | |
| P9-29 | | Rear Cover | VNA1918 | VNA1928 | |

Note: The numbers in the remarks column correspond to the numbers on the exploded diagram, Refer to "EXPLODED VIEWS".

EXPLODED VIEWS



■ CONTRAST OF PCB ASSEMBLIES

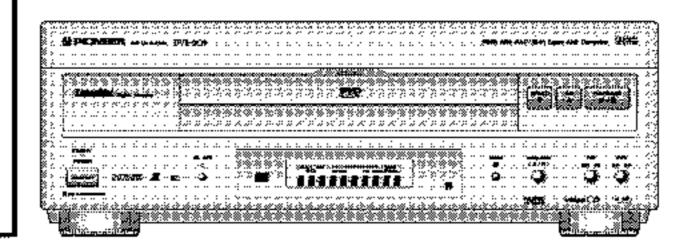
FLKB ASSY

VWG1891 and VWG1887 are constructed the same except for the following:

| | Complete and Deposite to the | Part | Part No. | | |
|------|------------------------------|-------------|-------------|---------|--|
| Mark | Symbol and Description | VWG1887 | VWG1891 | Remarks | |
| F | R109 | RS1/10S363J | RS1/10S472J | | |
| F | R110 | RS1/10S622J | RS1/10S123J | | |



Service Manual



ORDER NO. RRV1888

DVD LD PLAYER DVD LD PLAYER 909

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

| Туре | Model | Power Requirement | The voltage can be converted by the | Regional restriction codes |
|-----------|---------|-------------------------|-------------------------------------|----------------------------|
| . , , , , | DVL-909 | 1 Ottor Hoquironicist | following method. | (region number) |
| WY | 0 | AC 220 – 240V | | 2 |
| WY/RD | 0 | AC 220 – 240V | | 4 |
| RD/RA | 0 | AC 110 - 127/220 - 240V | Automatic select | 1 |
| RD/RC | 0 | AC 110 - 127/220 - 240V | Automatic select | 3 |
| RAM | 0 | AC 110 - 127/220 - 240V | Automatic select | 6 |
| RL | 0 | AC 110 - 127/220 - 240V | Automatic select | 3 |

●Refer to the service guide RRV1896 for DV-505. IC information is described in the service guide.

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1. SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

THIS PIONNER APPARATUS CONTAINS
LASER OF CLASS 1.
SERVICING OPERATION OF THE APPARATU

SERVICING OPERATION OF THE APPARATUS
SHOULD BE DONE BY A SPECIALLY
INSTRUCTED PERSON.

— LASER DIODE CHARACTERISTICS —

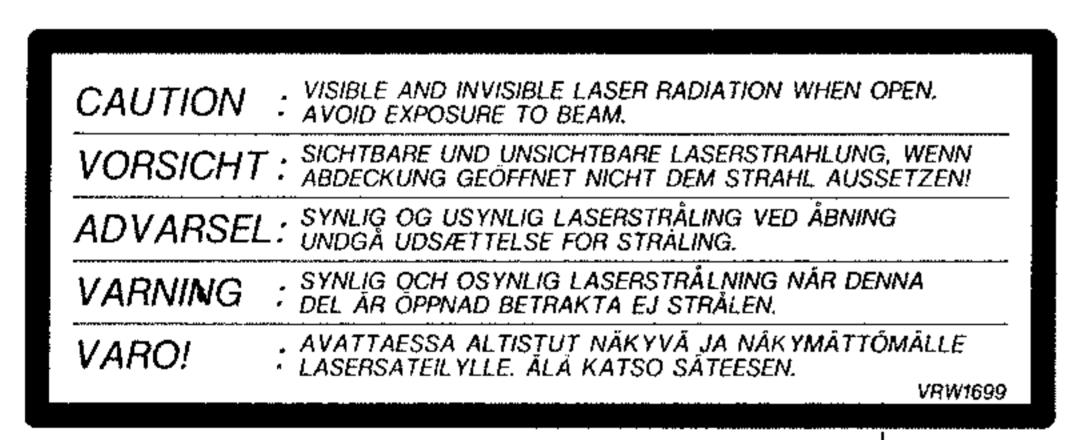
•FOR DVD

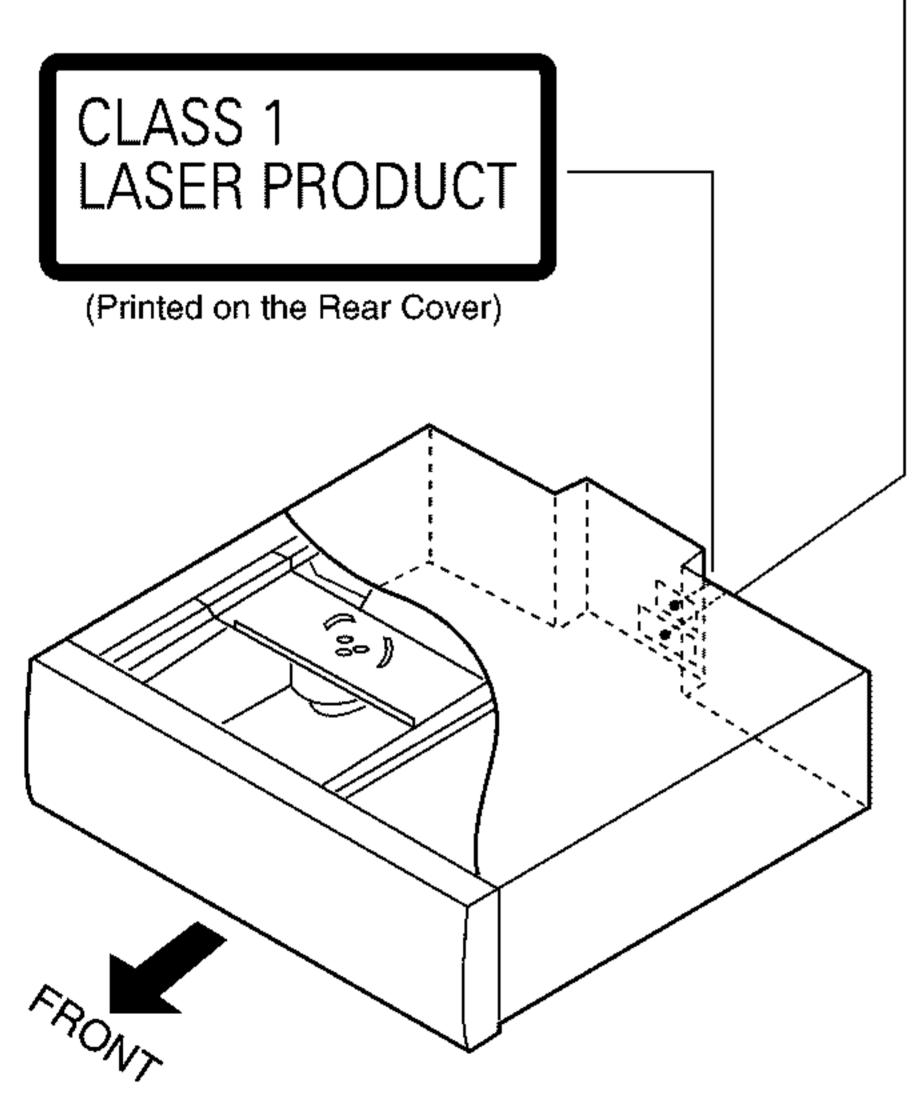
MAXIMUM OUTPUT POWER: 7 mw WAVELENGTH: 650 nm

•FOR CD/LD

MAXIMUM OUTPUT POWER : 5 mw WAVELENGTH : 780-785 nm

LABEL CHECK





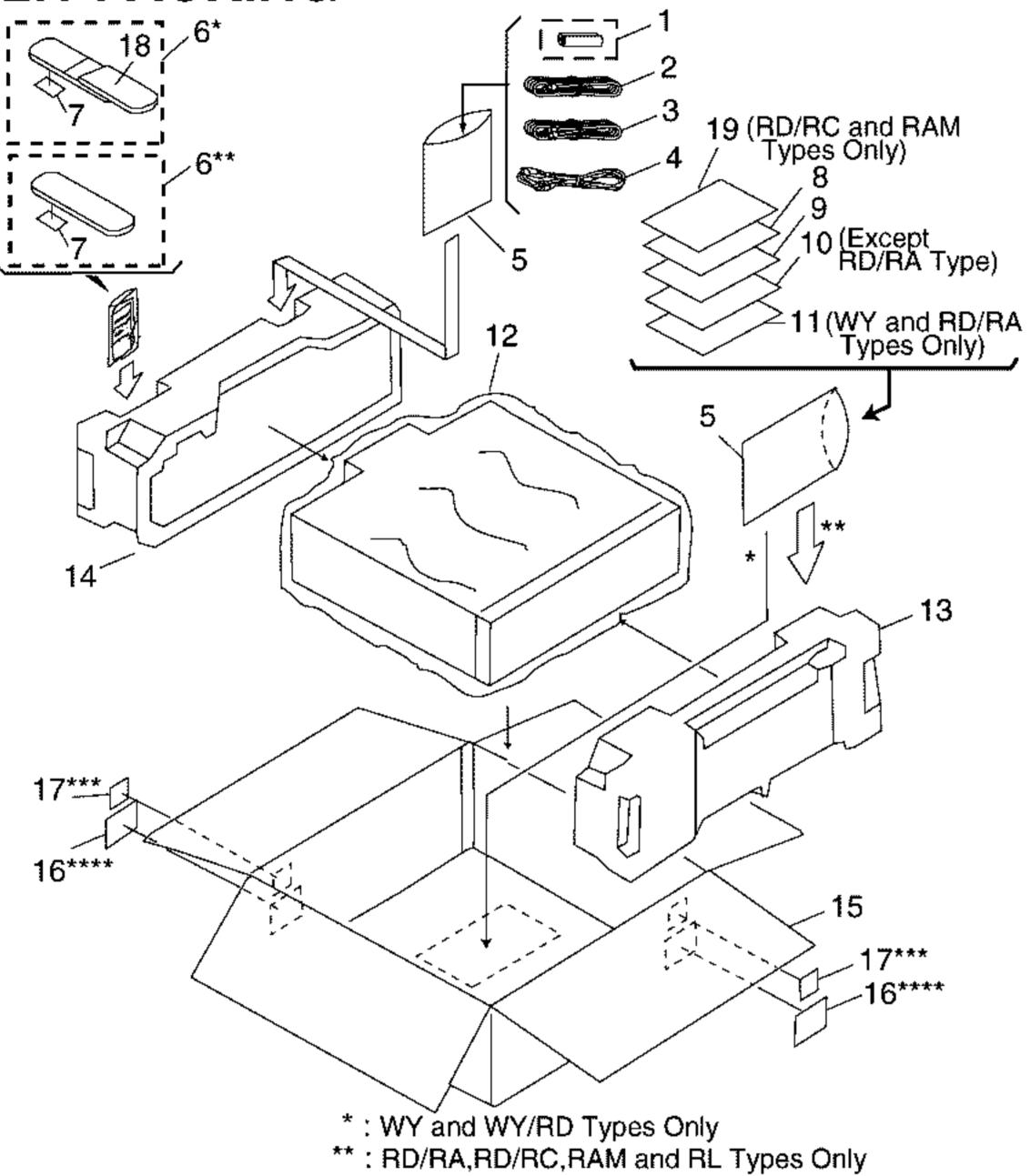
Additional Laser Caution

- 1. The ON/OFF statuses of the side-A/B detection switch (Lever switch connecting to the TNMB assy), slider-position detection switches (INNER and OUTER on the PKSB assy), loading-status detection switches (SW1, 2 and 3 on the LMSB assy), side B inside detection switch (S901 on the BISB assy) and CLD pickup active detection switch (S903 on the LCSB assy) are detected by the microprocessor (IC101 in the CLD MAIN assy). Also the DVD pickup active detection switch (S902 on the DCSB assy) is detected by the microprocessor (IC501 in the DVD MAIN assy).
- To permit the laser diode of CLD pickup to oscillate, it is required to set the CLD pickup active detection switch (S903: OFF) and the slider-position detection switches for the LD ACTIVE status (INNER: OFF, OUTER: OFF), and to set the loading-status detection switches for tilt neutral state (SW1: ON, SW2: OFF, SW3: ON). As long as these requirements are not satisfied, the laser diode will not oscillate. When the requirements are met in any way, the laser diode can oscillate. The laser diode oscillation will continue if pin 13 of IC801 is shorted to GND or the emitter and collector of Q834 are shorted each other (fault condition) in the CLD MAIN assy.
- To permit the laser diode of DVD pickup to oscillate, it is required to set the DVD pickup active detection switch (S902:OFF) and each switch and a state of laser diode are contents same as state of CLD pickup mentioned above. The laser diode oscillation will continue if pin 13 of IC101 is shorted to +5V (fault condition) in the DVD MAIN assy. In the test mode *, the laser diode oscillates when the microprocessor detects a PLAY signal, or when the PLAY key is pressed (S107 ON in the FLKB assy), with the above requirements satisfied.
- When the cover is open, close viewing through the objective lens with the naked eye will cause exposure to a Class 1 laser beam.
- *: Refer to page 79.

2. EXPLODED VIEWS AND PARTS LIST

- NOTES: Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
 - The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
 - ullet Screws adjacent to lacktriangle mark on product are used for disassembly.

2.1 PACKING



*** : WY,WY/RD,RD/RA,RD/RC and RL Types Only

**** : WY/RD,RD/RA and RD/RC Types Only

(1) PARTS LIST

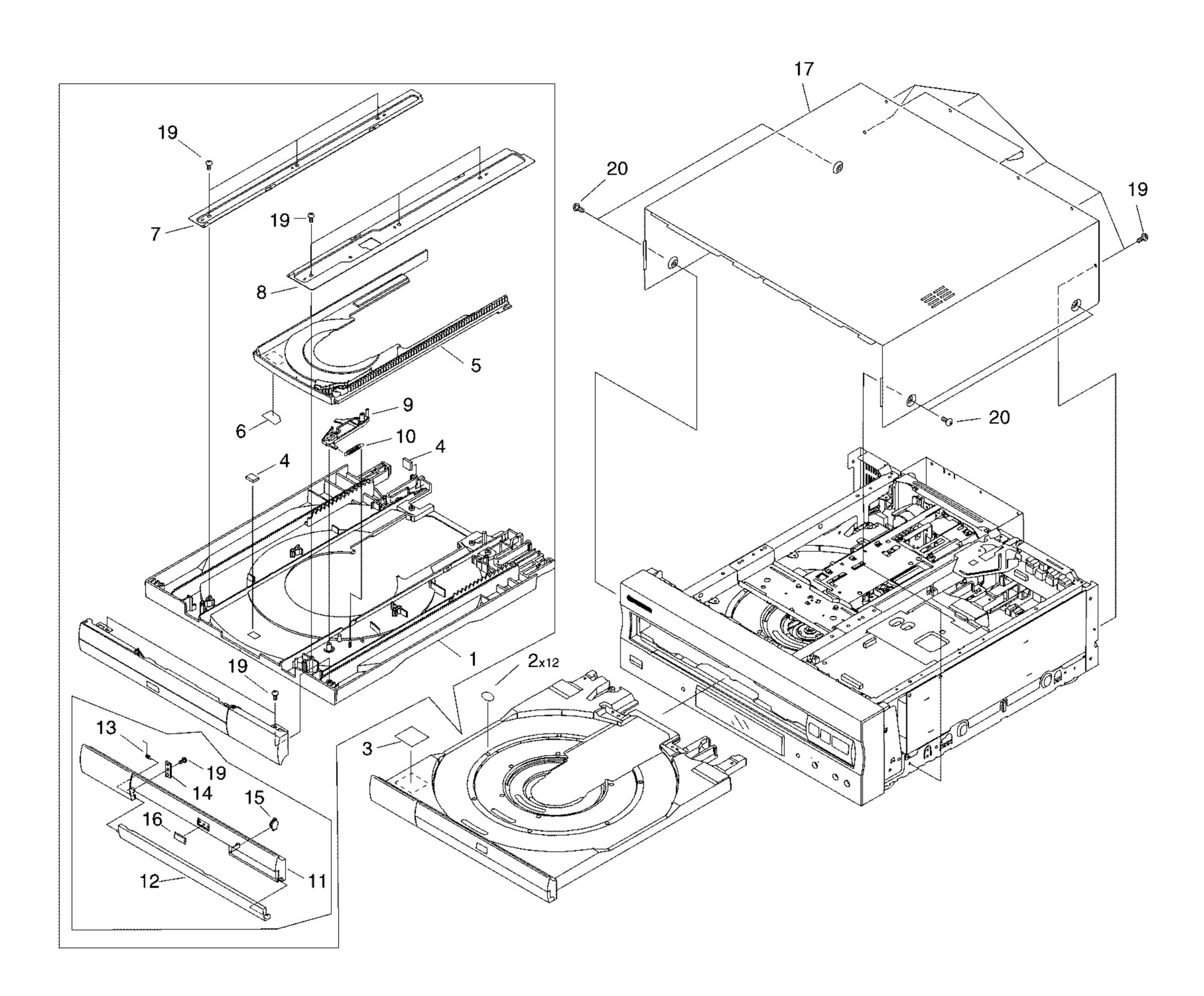
| <u>Mark</u> | No. | Description | Part No. |
|-------------|-----|------------------------|------------------------|
| | | | |
| NSP | 1 | DRY CELL BATTERY | See Contrast table (2) |
| | 2 | VIDEO CORD(L=1.5m) | VDE1048 |
| | 3 | AUDIO CORD(L=1.5m) | VDE1033 |
| Á. | 4 | AC POWER CORD | See Contrast table (2) |
| | 5 | POLYETHYLENE BAG | Z21-038 |
| | 6 | REMOTE CONTROL UNIT | See Contrast table (2) |
| | 7 | BATTERRY COVER | See Contrast table (2) |
| NSP | 8 | CAUTION | VRM1071 |
| | 9 | OPERATING INSTRUCTIONS | See Contrast table (2) |
| | 10 | OPERATING INSTRUCTIONS | See Contrast table (2) |
| NSP | 11 | WARRANTY CARD | See Contrast table (2) |
| | 12 | MIRROR MAT SHEET | VHL1018 |
| | 13 | PAD F | VHA1206 |
| | 14 | PAD R | VHA1207 |
| | 15 | PACKING CASE | See Contrast table (2) |
| | 16 | LABEL | See Contrast table (2) |
| | 17 | LABEL(REGION) | See Contrast table (2) |
| | 18 | UPPER COVER | See Contrast table (2) |
| NSP | 19 | CARD | See Contrast table (2) |
| | | | |

(2) CONTRAST TABLE

DVL-909/WY, WY/RD, RD/RA, RD/RC, RAM and RL are constructed the same except for the following:

| Maul. | NI. | Symbol and Description | | | Part | No. | | | Domorko |
|-------|------|---|----------|----------|----------|----------|----------|----------|----------------|
| Vlark | 140. | J. Symbol and Description | WY | WY/RD | RD/RA | RD/RC | RAM | RL | Remarks |
| NSP | 1 | DRY CELL BATTERY (R03,AAA) | VEM-022 | VEM-022 | Not used | Not used | Not used | Not used | |
| NSP | 1 | DRY CELL BATTERY (R6P,AA) | Not used | Not used | VEM-013 | VEM-013 | VEM-013 | VEM-013 | |
| À | 4 | AC POWER CORD | ADG1127 | ADG1127 | ADG7003 | ADG7003 | ADG7017 | ADG1154 | |
| | 6 | REMOTE CONTROL UNIT | VXX2534 | VXX2534 | Not used | Not used | Not used | Not used | (CU-DV013) |
| | 6 | REMOTE CONTROL UNIT | Not used | Not used | VXX2549 | VXX2549 | VXX2549 | VXX2549 | (CU-DV018) |
| | 7 | BATTERRY COVER | VNK4203 | VNK4203 | VNK3703 | VNK3703 | VNK3703 | VNK3703 | |
| | 9 | OPERATING INSTRUCTIONS (English/French/German/Italian) | VRE1069 | VRE1069 | Not used | Not used | Not used | Not used | |
| | 9 | OPERATING INSTRUCTIONS | Not used | Not used | VRB1193 | VRB1193 | VRB1193 | VRB1193 | (English) |
| | 10 | OPERATING INSTRUCTIONS (Spanish/Portuguese/Dutch/Swedish) | VRF1043 | VRF1043 | Not used | Not used | Not used | Not used | |
| | 10 | OPERATING INSTRUCTIONS | Not used | Not used | Not used | VRC1064 | Not used | VRC1064 | (Trad-Chinese) |
| | 10 | OPERATING INSTRUCTIONS | Not used | Not used | Not used | Not used | VRC1062 | Not used | (Simp-Chinese |
| NSP | 11 | WARRANTY CARD | ARY7008 | Not used | ARW1020 | Not used | Not used | Not used | |
| | 15 | PACKING CASE | VHG1724 | VHG1724 | VHG1734 | VHG1734 | VHG1744 | VHG1734 | |
| | 16 | LABEL | Not used | VRW1713 | VRW1711 | VRW1710 | Not used | Not used | |
| | 17 | LABEL(REGION) | VRW1701 | VRW1705 | VRW1708 | VRW1702 | Not used | VRW1702 | |
| | 18 | UPPER COVER | VNK4204 | VNK4204 | Not used | Not used | Not used | Not used | |
| NSP | 19 | CARD | Not used | Not used | Not used | VRY1110 | VRY1109 | Not used | |

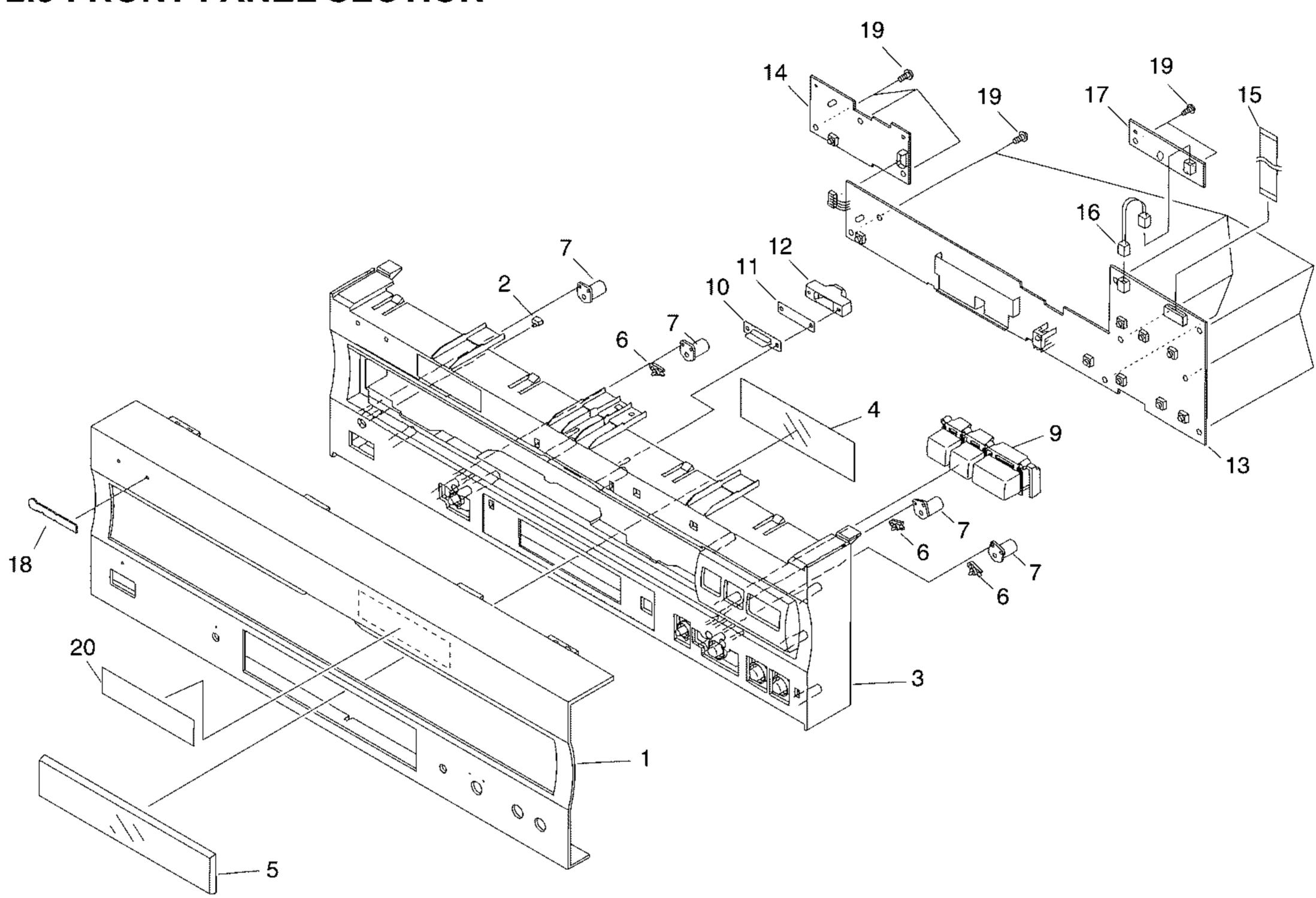
2.2 EXTERIOR SECTION



●PARTS LIST

| Mark | No. | Description | Part No. | Mark No. | Description | Part No. |
|------|-----|-------------------|----------|----------|---------------|--------------|
| | 1 | LD TRAY ASSY | VXA2302 | 11 | TRAY PANEL | VNK4065 |
| | 2 | CUSHION | VEC1881 | 12 | DVD DOOR ASSY | VXA2338 |
| NSP | 3 | LABEL | VRW1289 | 13 | DOOR SPRING | VBH1248 |
| | 4 | DAMP CUSHION | VEC1683 | 14 | DOOR HOLDER | VNL1697 |
| | 5 | CD TRAY | VNK3664 | 15 | DAMPER | VXA1999 |
| | 6 | LABEL | VRW1628 | 16 | DVD PLATE | VAM1077 |
| | 7 | GUIDE PLATE (R) | VNE1939 | 17 | BONNET CASE S | VXX2560 |
| | 8 | GUIDE PLATE (L) | VNE1938 | 18 | | |
| | 9 | LOCK PLATE | VNL1703 | 19 | SCREW | BBZ30P080FMC |
| | 10 | LOCK PLATE SPRING | VBH1188 | 20 | SCREW | BCZ40P060FZK |

2.3 FRONT PANEL SECTION



(1) PARTS LIST

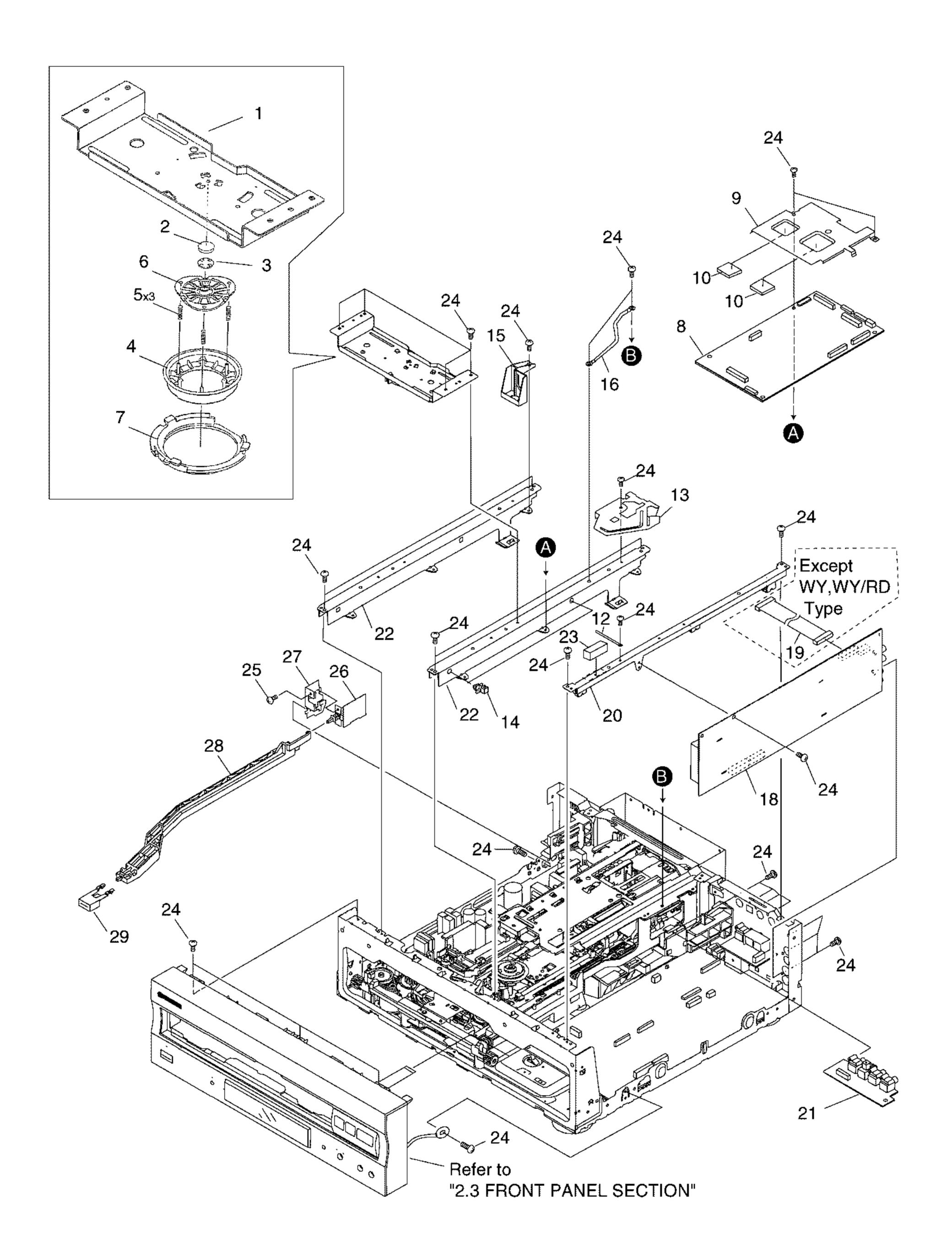
| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
|------|-----|-------------------|------------------------|------|-----|---------------------|------------------------|
| | 1 | FRONTALMI | See Contrast table (2) | | 11 | ILLUMINATION FILTER | VEC1950 |
| | 2 | LED LENS 1 | RNK2066 | | 12 | ILLUMI HOLDER | VNK4289 |
| | 3 | PANEL BASE | VNK4064 | | 13 | FLKB ASSY | See Contrast table (2) |
| | 4 | FL FILTER | VEC1643 | NSP | 14 | PWSB ASSY | See Contrast table (2) |
| | 5 | FL LENS | VEC1943 | | 15 | FLEXIBLE CABLE(14P) | VDA1638 |
| | 6 | INDICATOR LENS | VNK1538 | | 16 | CONNECTOR ASSY | PG02KK-E12 |
| | 7 | LENS HOLDER | VNK4151 | NSP | 17 | DILB ASSY | VWG1894 |
| | 8 | •••• | | | 18 | NAME PLATE | VAM1051 |
| | 9 | PLAY BUTTON | VNK4067 | | 19 | SCREW | BBZ30P080FMC |
| | 10 | ILLUMINATION LENS | VNK4168 | NSP | 20 | GETTER | See Contrast table (2) |

(2) CONTRAST TABLE

DVL-909/WY, WY/RD, RD/RA, RD/RC, RAM and RL are constructed the same except for the following:

| Mark No | Na | Cumbal and Dagarintian | | | Part | No. | | | Domorko |
|---------|-----|------------------------|----------|----------|---------|---------|---------|---------|---------|
| IVIAIK | NO. | Symbol and Description | WY | WY/RD | RD/RA | RD/RC | RAM | RL | Remarks |
| | 1 | FRONTALMI | VAH1280 | VAH1280 | VAH1279 | VAH1279 | VAH1279 | VAH1279 | |
| NSP | 20 | GETTER | Not used | Not used | VRW1694 | VRW1694 | VRW1694 | VRW1694 | |
| | 13 | FLKB ASSY | VWG1890 | VWG1890 | VWG1936 | VWG1936 | VWG1935 | VWG1889 | |
| NSP | 14 | PWSB ASSY | VWG1938 | VWG1938 | VWG1893 | VWG1893 | VWG1893 | VWG1893 | |

2.4 TOP VIEW SECTION



(1) TOP VIEW SECTION PARTS LIST

| Mark | No. | Description | Part No. | <u>Mark</u> | No. | Description | Part No. |
|------|----------|-----------------------------|--------------------|-------------|-----|-------------------|------------------------|
| | 1 | CENTER PLATE | VNE2127 | NSP | 16 | CORD WITH PLUG | DE007VF0 |
| | 2 | RUBBER MAT | VEB1114 | | 17 | • • • • | |
| | 3 | THRUST HOLDER | VNL1663 | | 18 | DMYC or MYCB ASSY | See Contrast table (2) |
| | 4 | CLAMPER | VNL1648 | | 19 | HOUSING ASSY(13P) | See Contrast table (2) |
| | 5 | CLAMPER SPRING | VBH1192 | NSP | 20 | PCB-HOLDER | VNE2121 |
| | 6 | CLAMPER HEAD | VNL1649 | | 21 | JCKB ASSY | See Contrast table (2) |
| | 7 | CLAMPER HOLDER | VNL1788 | NSP | 22 | CENTER ANGLE | VNE2126 |
| | 8 | DVDM ASSY | VWS1328 | | 23 | CUSHION | VEC1982 |
| | 9 | HEAT SINK | VNE2134 | | 24 | SCREW | BBZ30P080FMC |
| | 10 | RADIATION SEAT | VEB1282 | | 25 | SCREW | PMB30P080FZK |
| | 11 | • • • • | | | 26 | MSWB ASSY | VWG1895 |
| | 12 | CORD CLAMPER | RNH-184 | NSP | 27 | POWER HOLDER | VNE2123 |
| | 13 | CABLE HOLDER | VEC1958 | | 28 | POWER JOINT | VNK4148 |
| NSP | 14 15 | CORNER POST SHIPPING CAM | DEC1212 VNL1729 | | 29 | POWER BUTTON | VNK4159 |

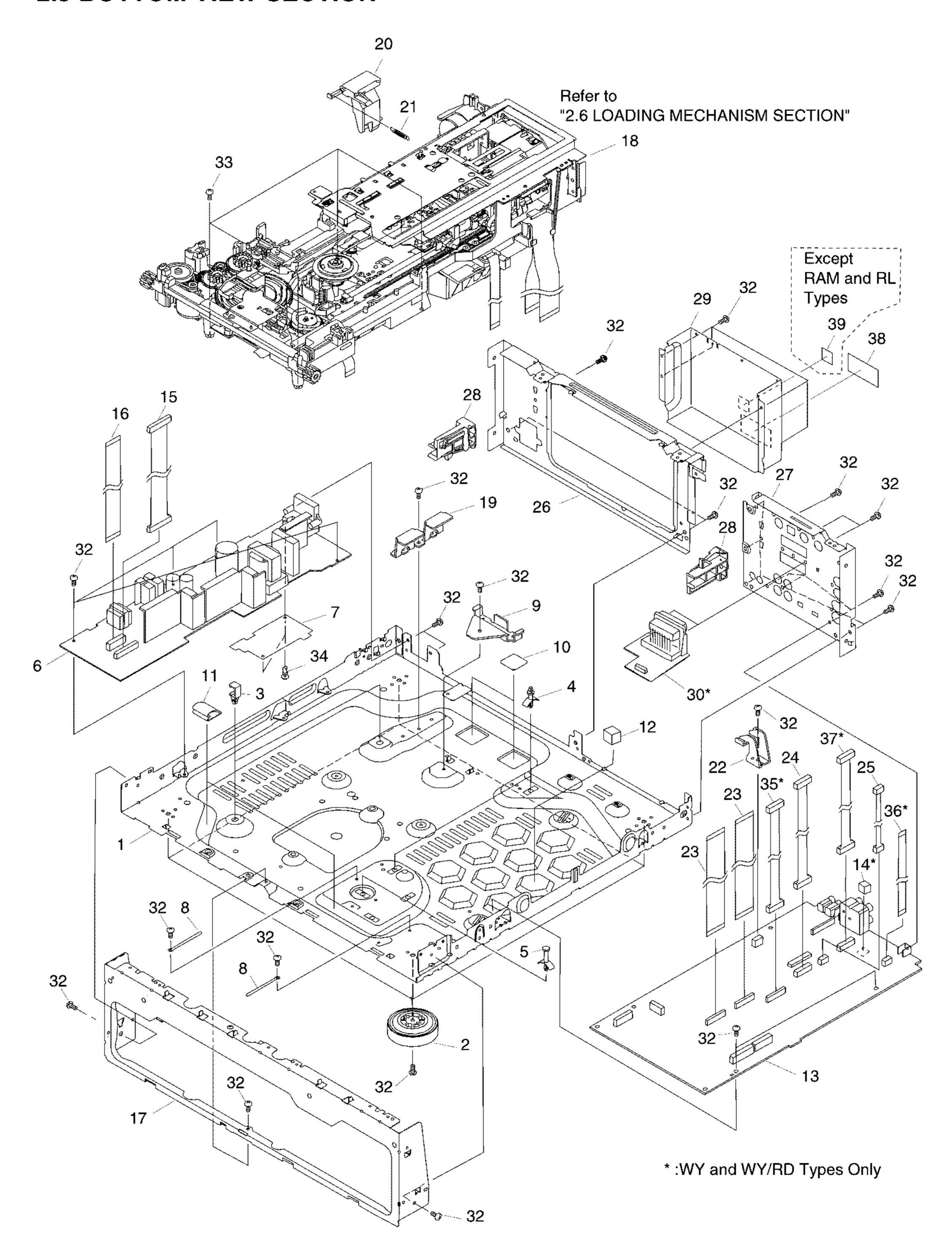
(2) CONTRAST TABLE

DVL-909/WY, WY/RD, RD/RA, RD/RC, RAM and RL are constructed the same except for the following:

| Nā ark l | N.a | Cumbal and Decembris | Part No. | | | | | | Domonico |
|----------|----------------------|--|--|--|---|---|---|---|----------|
| Mark | NO. | Symbol and Description | WY | WY/RD | RD/RA | RD/RC | RAM | RL | Remarks |
| | 18 18 19 21 | DMYC ASSY MYCB ASSY HOUSING ASSY(13P) JCKB ASSY | VWV1584 Not used Not used VWV1578 | VWV1584 Not used Not used VWV1578 | Not used VWV1596 VKP2154 VWV1579 | Not used VWV1596 VKP2154 VWV1579 | Not used VWV1596 VKP2154 VWV1579 | Not used VWV1596 VKP2154 VWV1579 | |

DVL-909

2.5 BOTTOM VIEW SECTION



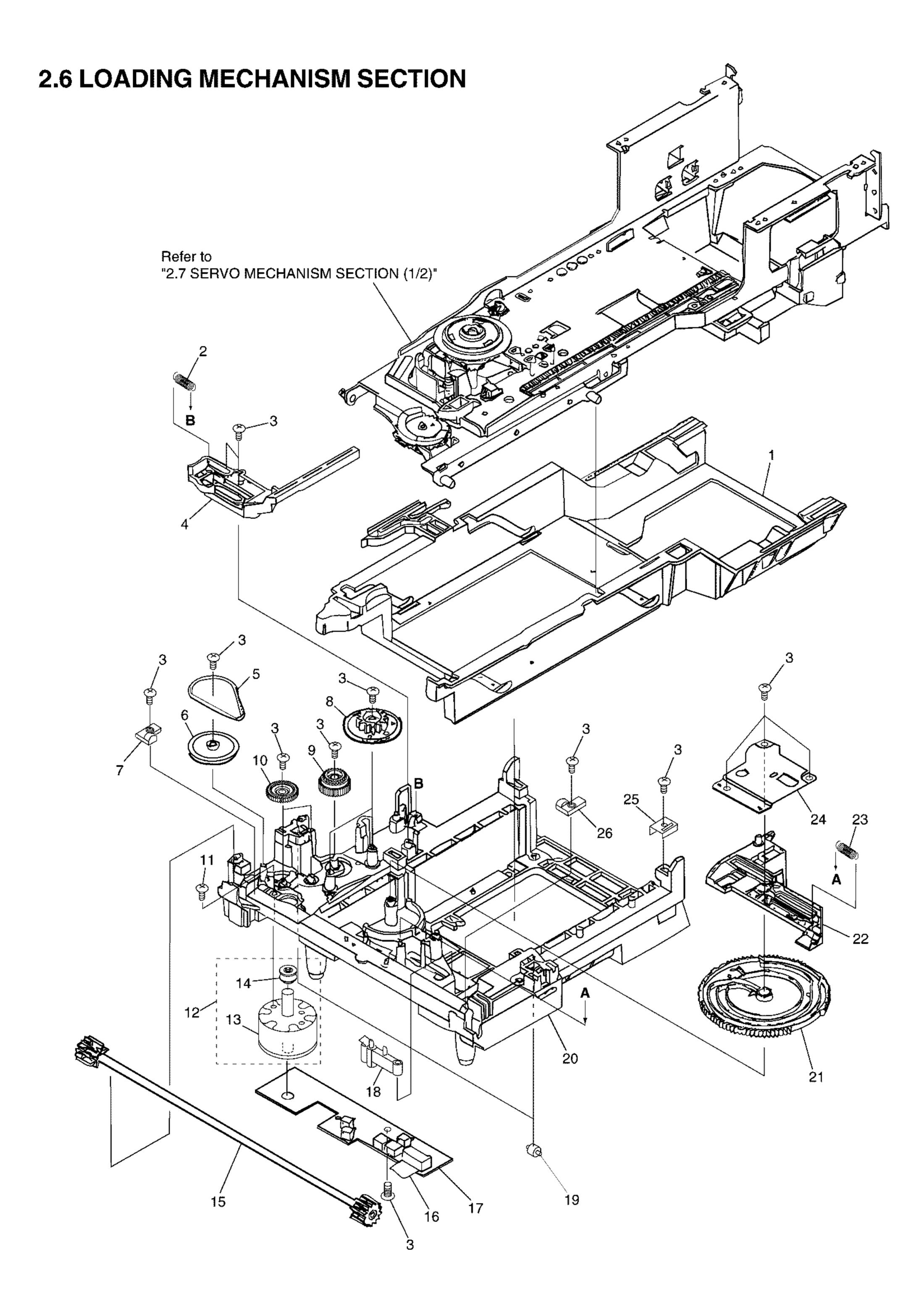
(1) BOTTOM VIEW SECTION PARTS LIST

| Mark | No. | Description | Part No. | <u>Mark</u> | No. | Description | Part No. |
|----------|-----|----------------------|------------------------|-------------|-----|---------------------|------------------------|
| NSP | 1 | CHASSIS | VNA1887 | | 21 | SHIPPING SPRING | VBH1275 |
| | 2 | INSULATOR ASSY | VXA2356 | NSP | 22 | CAM HOLDER R | VNE2090 |
| | 3 | PCB HINGE | VEC1174 | | 23 | FLEXIBLE CABLE(22P) | VDA1652 |
| NSP | 4 | PCB SPACER | AEC1188 | | 24 | HOUSING ASSY (7P) | VKP2155 |
| NSP | 5 | CIRCUIT BOARD SPACER | VEC1957 | | 25 | HOUSING ASSY (4P) | VKP2153 |
| Â | 6 | POWER SUPPLY ASSY | VWR1287 | | 26 | REAR PANEL R | VNA1892 |
| <u> </u> | 7 | SHEET P | | | 27 | REAR PANEL L | See Contrast table (2) |
| | 8 | CORD CLAMPER | VEC1874 | | 28 | TRAY STOPPER | VNL1707 |
| NSP | _ | STOPPER | RNH-184 VNE2088 | | 29 | REAR COVER | See Contrast table (2) |
| NOP | 9 | | | | 30 | SCRB ASSY | See Contrast table (2) |
| | 10 | SPACER | VEC1939 | | | | |
| | ન ન | SHELL CLIP | DEC1184 | | 31 | • • • • | |
| NSP | 11 | SPACER A | | | 32 | SCREW | BBZ30P080FMC |
| NOP | 12 | | VEC1989 | | 33 | SCREW | BBZ30P100FMC |
| NCD | 13 | CLDM ASSY | See Contrast table (2) | | 34 | RIVET | RBM-003 |
| NSP | 14 | SPACER B | See Contrast table (2) | | 35 | HOUSING ASSY(13P) | See Contrast table (2) |
| | 15 | HOUSING ASSY (14P) | VKP2151 | | 36 | FLEXIBLE CABLE(6P) | See Contrast table (2) |
| | | | | | 37 | CONNECTOR ASSY | See Contrast table (2) |
| | 16 | FLEXIBLE CABLE(15P) | VDA1644 | | 38 | LABEL(CAUTION) | VRW1699 |
| NSP | 17 | PANEL HOLDER | VNA1686 | | 39 | LABEL(REAGION) | See Contrast table (2) |
| NSP | 18 | MECHANISM ASSY | VWT1149 | | 00 | LADEL(I (LAGION) | Jee Contrast table (2) |
| NSP | 19 | CAM HOLDER L | VNE2089 | | | | |
| | 20 | SHIPPING LEVER | VNL1728 | | | | |

(2) CONTRAST TABLE

DVL-909/WY, WY/RD, RD/RA, RD/RC, RAM and RL are constructed the same except for the following:

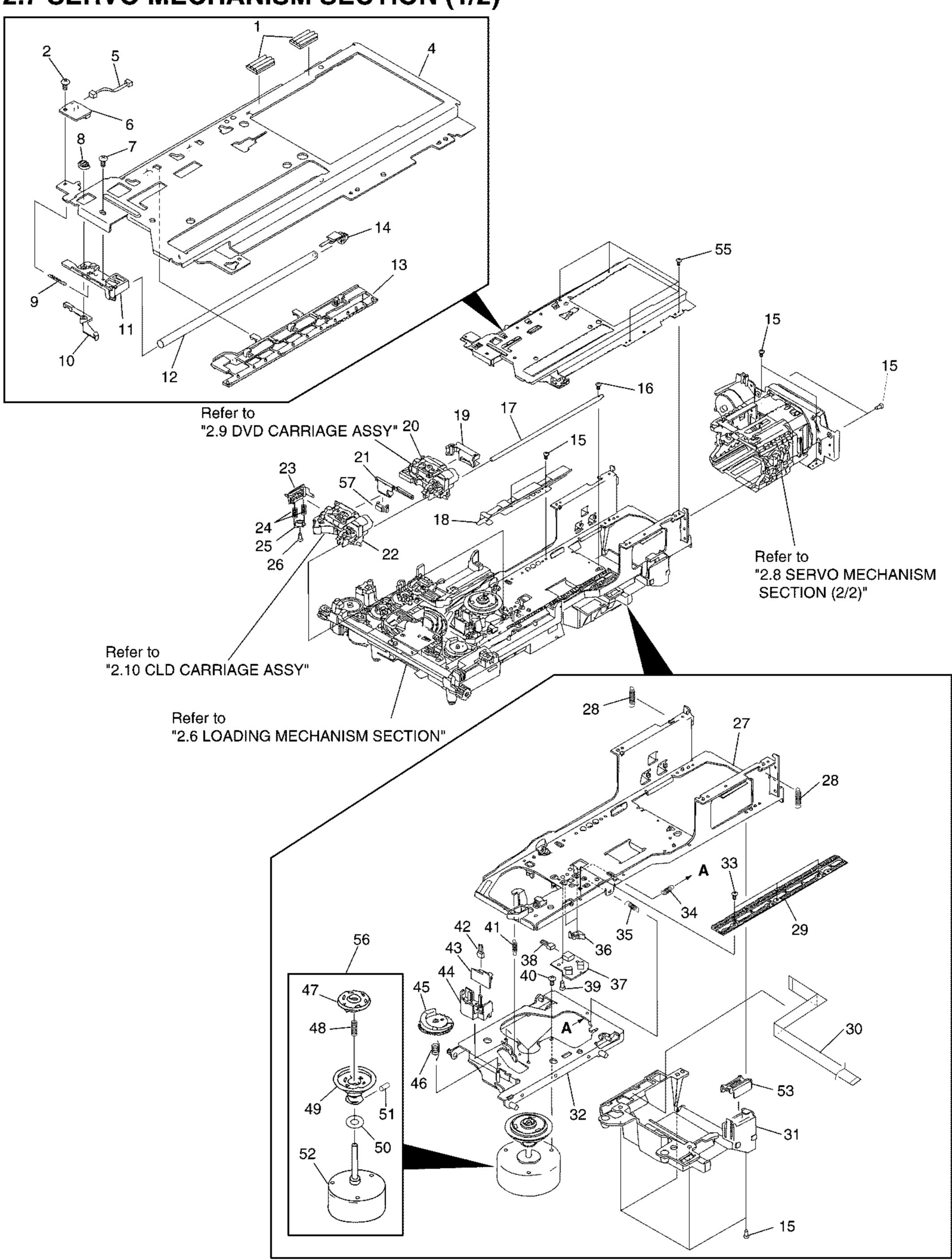
| Mark | No. | Symbol and Description | Part No. | | | | | | |
|------|----------------------------|--|---|---|---|---|---|---|---------|
| | | | WY | WY/RD | RD/RA | RD/RC | RAM | RL | Remarks |
| NSP | 13 14 27 29 30 | CLDM ASSY SPACER B REAR PANEL L REAR COVER SCRB ASSY | VWS1332 VEC1979 VNA1920 VNA1925 VWV1470 | VWS1332 VEC1979 VNA1920 VNA1925 VWV1470 | VWS1331 Not used VNA1908 VNA1895 Not used | VWS1331 Not used VNA1908 VNA1895 Not used | VWS1331 Not used VNA1908 VNA1893 Not used | VWS1331 Not used VNA1908 VNA1894 Not used | |
| | 35 36 37 39 | HOUSING ASSY(13P) FLEXIBLE CABLE(6P) CONNECTOR ASSY LABEL(REAGION) | VKP2162 VDA1635 PG08KK-F10 VRW1700 | VKP2162 VDA1635 PG08KK-F10 VRW1704 | Not used Not used Not used VRW1709 | Not used Not used Not used VRW1703 | Not used Not used Not used Not used | Not used Not used Not used Not used | |



• LOADING MECHANISM SECTION PARTS LIST

| Mark | No | . Description | Part No. | Mark | Mark No. Description | | Part No. |
|------|----|--------------------|--------------|------|----------------------|----------------------|----------|
| | 1 | Clamp Cam B | VNL1765 | | 16 | Flexible Cable (10P) | VDA1645 |
| | 2 | CDP Spring | VBH1191 | NSP | 17 | LMSB Assy | VWG1554 |
| | 3 | Screw | Z39-019 | | 18 | MB Switch Lever | VNL1664 |
| | 4 | CD Plate | VNL1685 | | 19 | Roller | VNL1042 |
| | 5 | Rubber Belt | VEB1184 | | 20 | Mechanism Base | VNK3239 |
| | 6 | Gear Pulley | VNL1662 | | 21 | Cam Gear | VNL1625 |
| | 7 | Slider (L) | VNL1665 | | 22 | Cam Plate | VNL1631 |
| | 8 | Twin Gear | VNL1626 | | 23 | CAS Spring | VBH1190 |
| | 9 | Center Gear | VNL1660 | | 24 | Shaft Holder | VNE1942 |
| | 10 | Double Gear | VNL1661 | | 25 | CAM Holder | VNE2032 |
| | 11 | Screw | BMZ26P040FMC | | 26 | Slider (R) | VNL1666 |
| | 12 | Loading Motor Assy | VXX2045 | | | ` ' | |
| | 13 | Carriage Motor | VXM1033 | | | | |
| NSP | 14 | Motor Pulley | VNL1630 | | | | |
| | 15 | Synchro Gear Assy | VXA2105 | | | | |

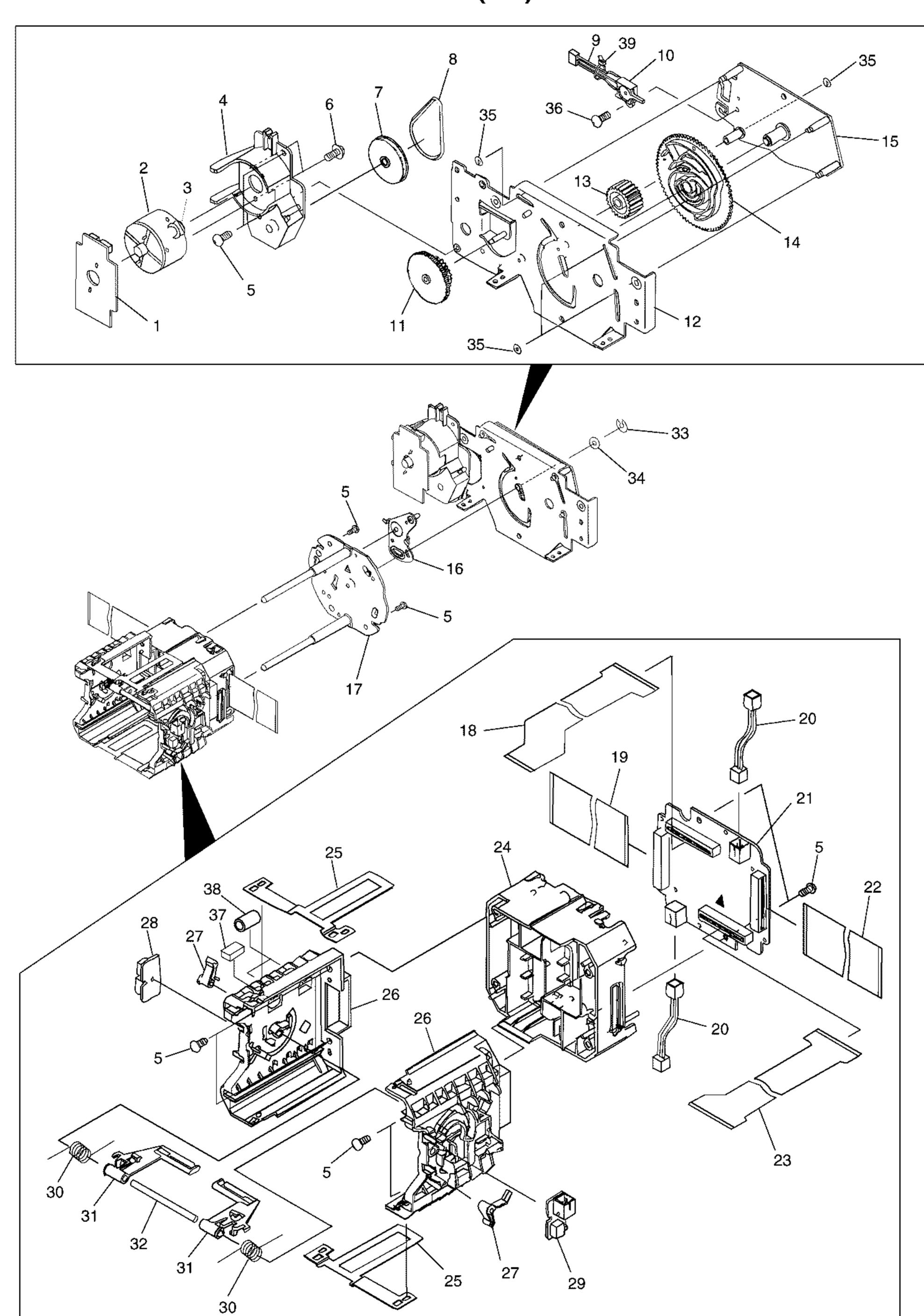
2.7 SERVO MECHANISM SECTION (1/2)



• SERVO MECHANISM SECTION (1/2) PARTS LIST

| Mark | No. | Description | Part No. | Mark | No | . Description | Part No. |
|--------------|-----|--|--------------|------|----|----------------------|--------------|
| | 1 | Mini Clamp | VEC1905 | | 26 | Screw | PMZ20P060FZK |
| | 2 | Screw | BBZ26P060FMC | | 27 | Tilt Base (Under) | VNL1711 |
| | 3 | • • • • • | | | 28 | Tilt Rear Spring | VBH1274 |
| | 4 | Tilt Base (Upper) | VNE2062 | | 29 | CA Rack (Lower) | VNL1712 |
| | 5 | Housing Assy (2P) | VKP2136 | | 30 | Flexible Cable (6P) | VDA1642 |
| NSP | 6 | BISB Assy | VWG1796 | | 31 | Flexible Cable Cover | VNL1727 |
| | 7 | Screw | BPZ20P040FZK | | 32 | Motor Base | VNE1941 |
| | 8 | B Cam | VNL1725 | | 33 | Screw | IBZ26P060FMC |
| | 9 | Support Spring | VBH1273 | | 34 | Tilt Spring | VBH1263 |
| | 10 | SW Lever B | VNL1723 | | 35 | Thrust Spring | VBH1245 |
| | 11 | Shaft Holder | VNL1724 | | 36 | CA Switch Lever | VNL1644 |
| | 12 | CA Shaft (Upper) | VLL1486 | NSP | 37 | PKSB Assy | VWG1555 |
| | | CA Rack (Upper) | VNL1722 | | 38 | Housing Assy (3P) | VKP2045 |
| | 14 | Shaft Stay | VNL1726 | | 39 | Screw | IBZ26P120FMC |
| | 15 | Screw | BBZ30P080FMC | | 40 | Screw | PMA30P050FMC |
| | 16 | Screw | PPZ20P060FMC | | 41 | Tilt Spring B | VBH1287 |
| | 17 | CA Shaft (Lower) | VLL1496 | | 42 | Housing Assy (3P) | VKP2046 |
| | 18 | TAN Guide | VNE2061 | NSP | 43 | FG Assy | VWG1556 |
| | 19 | FPC Holder A | VNL1751 | 1101 | | FG Base | VNL1781 |
| À | 20 | DVD Carriage Assy | VWT1146 | | | Tilt Cam | VNL1643 |
| | 21 | FPC Holder B | VNL1801 | | 46 | Tilt Cam Spring | VBH1243 |
| Às. | | | VWT1141 | | 47 | PRC Hub | VNL1684 |
| 7 4 5 | | , and the state of | | | 48 | Centering Spring | VBH1269 |
| | 23 | CA Guide | VNL1668 | | 49 | R Turn Table Assy | VXA2354 |
| | 24 | TAN Spring (B) | VBH1264 | NSP | 50 | Oil Stopper | VBF1002 |
| | 25 | TAN Lever (B) | VNL1669 | NOF | 50 | Oil Stopper | VBFTQQZ |
| | | | | | 51 | Screw | ZMD30H030FBT |
| | | | | NSP | 52 | Spindle Motor | VXM1057 |
| | | | | | 53 | Cover S | VNL1780 |
| | | | | | 54 | • • • • • | |
| | | | | | | Screw | BBZ30P050FZK |
| | | | | | 56 | Spindle Motor Assy | VXX2579 |
| | | | | | | FPC Holder | VNL1789 |
| | | | | | | | |

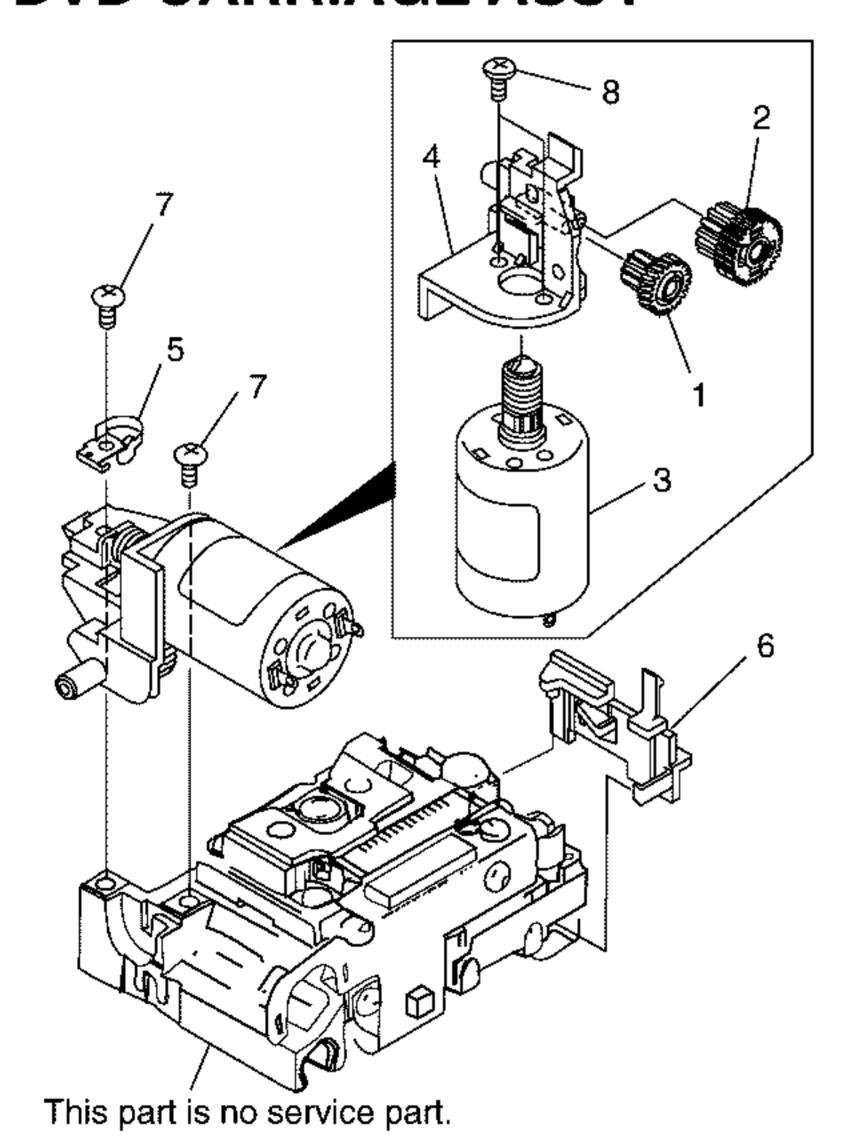
2.8 SERVO MECHANISM SECTION (2/2)



• SERVO MECHANISM SECTION (2/2) PARTS LIST

| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. | |
|------|-----|------------------------------|--------------|---------|-----|----------------------|--------------|--|
| NSP | 1 | TNMB Assy | VWG1793 | NSP | 21 | CNNB Assy | VWG1792 | |
| | 2 | Carriage Motor | VXM1033 | | 22 | Flexible Cable (27P) | VDA1643 | |
| NSP | 3 | Motor Pulley | VNL1630 | | 23 | PU FPC-A | VNP1582 | |
| | 4 | Motor Holder | VNL1717 | | 24 | PCB Holder | VNL1716 | |
| | | Screw | BBZ30P080FMC | | | FC Guide | VNE2059 | |
| | 6 | Screw | BMZ26P040FMC | | 26 | PU Holder | VNL1715 | |
| | 7 | Gear Pulley | VNL1662 | | 27 | SW Lever C | VNL1714 | |
| | 8 | Rubber Belt | VEB1184 | NSP | 28 | LCSB Assy | VWG1795 | |
| | 9 | Housing Assy (3P) | VKP2137 | NSP | 29 | DCSB Assy | VWG1794 | |
| | 10 | Lever Switch | DSK1003 | | 30 | FC Arm Spring | VBH1272 | |
| | 11 | Middle Gear VNL1720 | | | 31 | FC Arm | VNL1713 | |
| | 12 | Turn Panel Assy | VXA2337 | VXA2337 | 32 | Tilt Shaft | VLL1175 | |
| | 13 | Gear S | VNL1719 | | 33 | E Ring | YE30FUC | |
| | 14 | Turn Cam Gear | VNL1718 | | 34 | Washer | WA42D080D050 | |
| | 15 | Swing Plate Assy | VXA2289 | VXA2289 | 35 | Washer | WT26D070D050 | |
| | 16 | Turn Lever Assy | VXA2292 | | 36 | Screw | PMA26P060FMC | |
| | 17 | Turn Plate Assy | VXA2290 | | 37 | Cushion | VEC1917 | |
| | 18 | PU FPC-B | VNP1583 | | 38 | Tube | VEB1273 | |
| | 19 | Flexible Cable (26P) VDA1653 | | | 39 | Binder | Z09-056 | |
| | 20 | Connector Assy | PG02KK-E10 | | | | | |

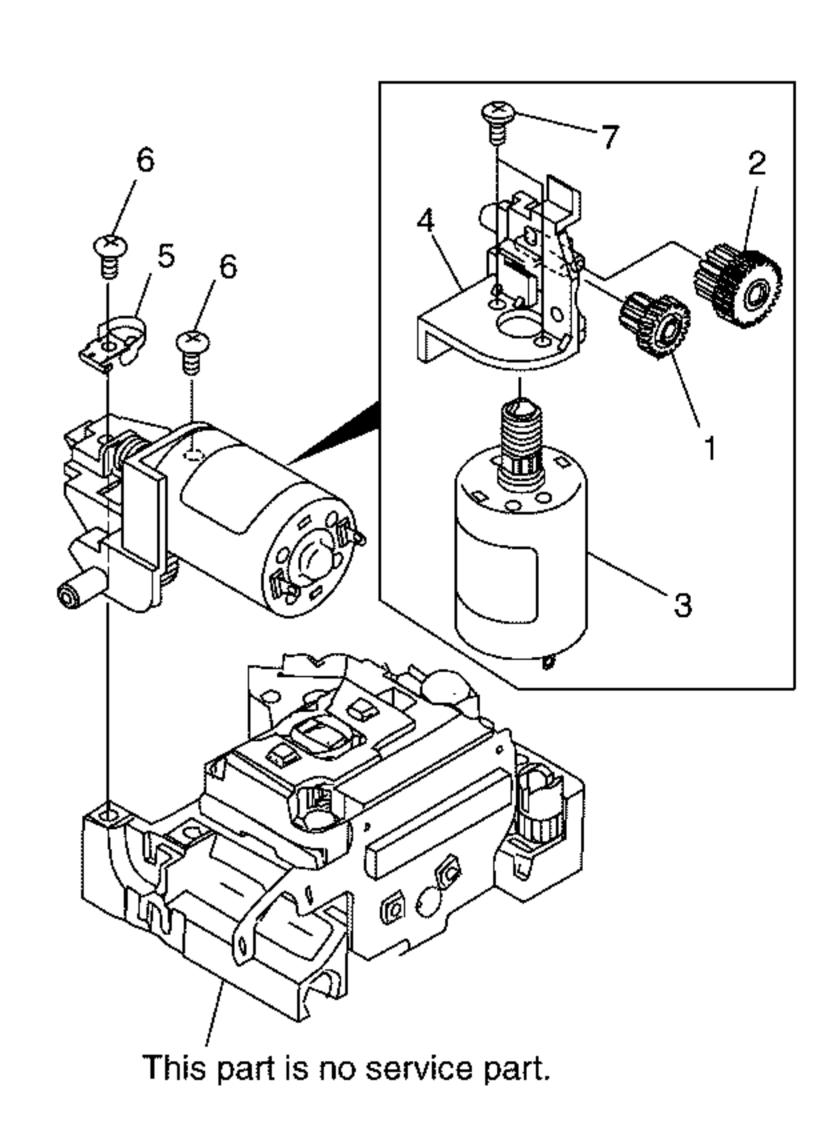
2.9 DVD CARRIAGE ASSY



DVD CARRIAGE ASSY PARTS LIST

| Mark | No | . Description | Part No. | | |
|------|----|-------------------|--------------|--|--|
| | 1 | CA Gear (A) | VNL1782 | | |
| | 2 | CA Gear B Ássy | VXX2471 | | |
| | 3 | Slider Motor Assy | VXX2472 | | |
| | 4 | Motor Holder | VNL1779 | | |
| | 5 | Thrust Holder | VBK1058 | | |
| | 6 | CA Guide B | VNL1721 | | |
| | 7 | Screw | BBZ20P050FZK | | |
| | 8 | Screw | PMA20P033FUC | | |

2.10 CLD CARRIAGE ASSY

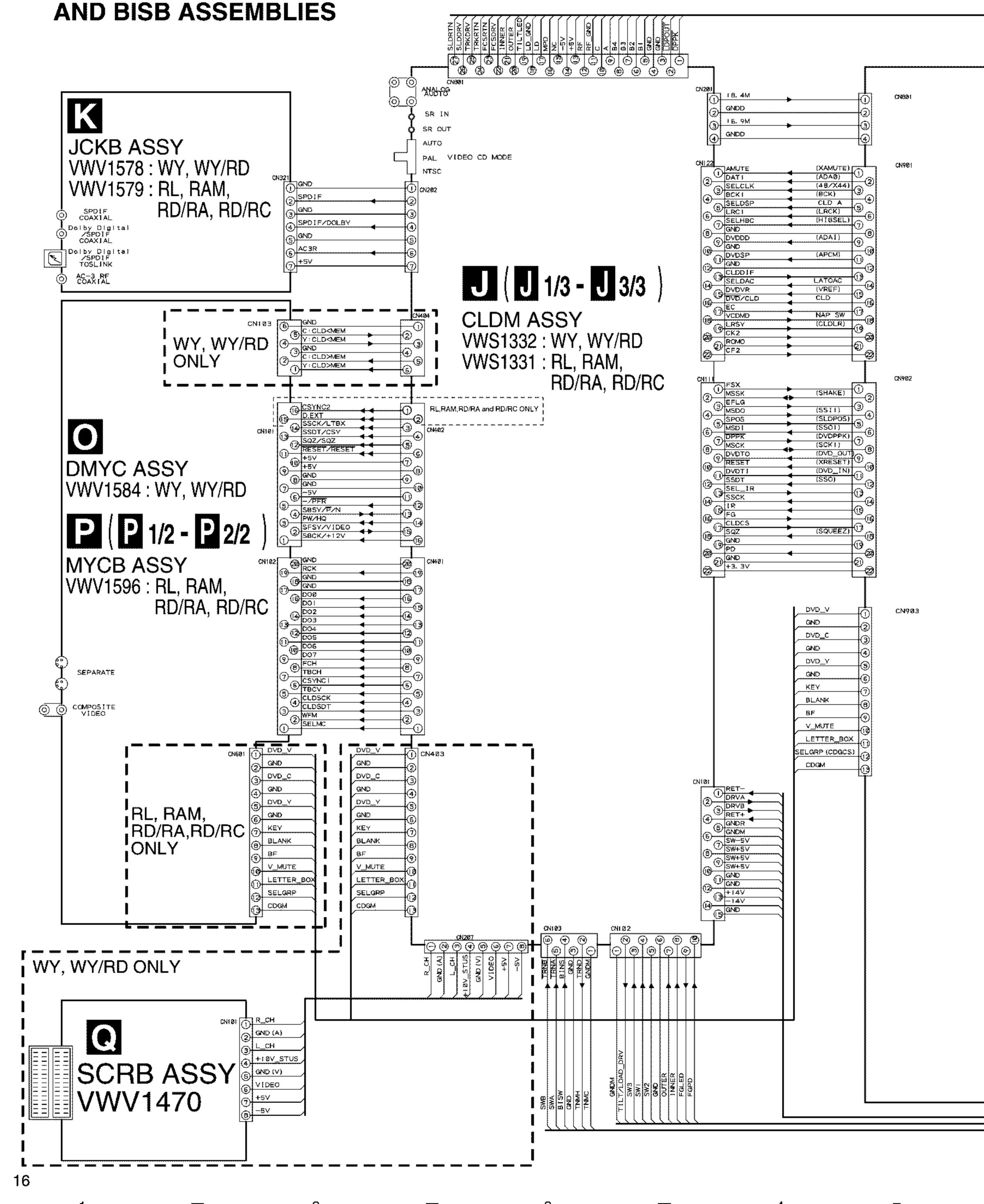


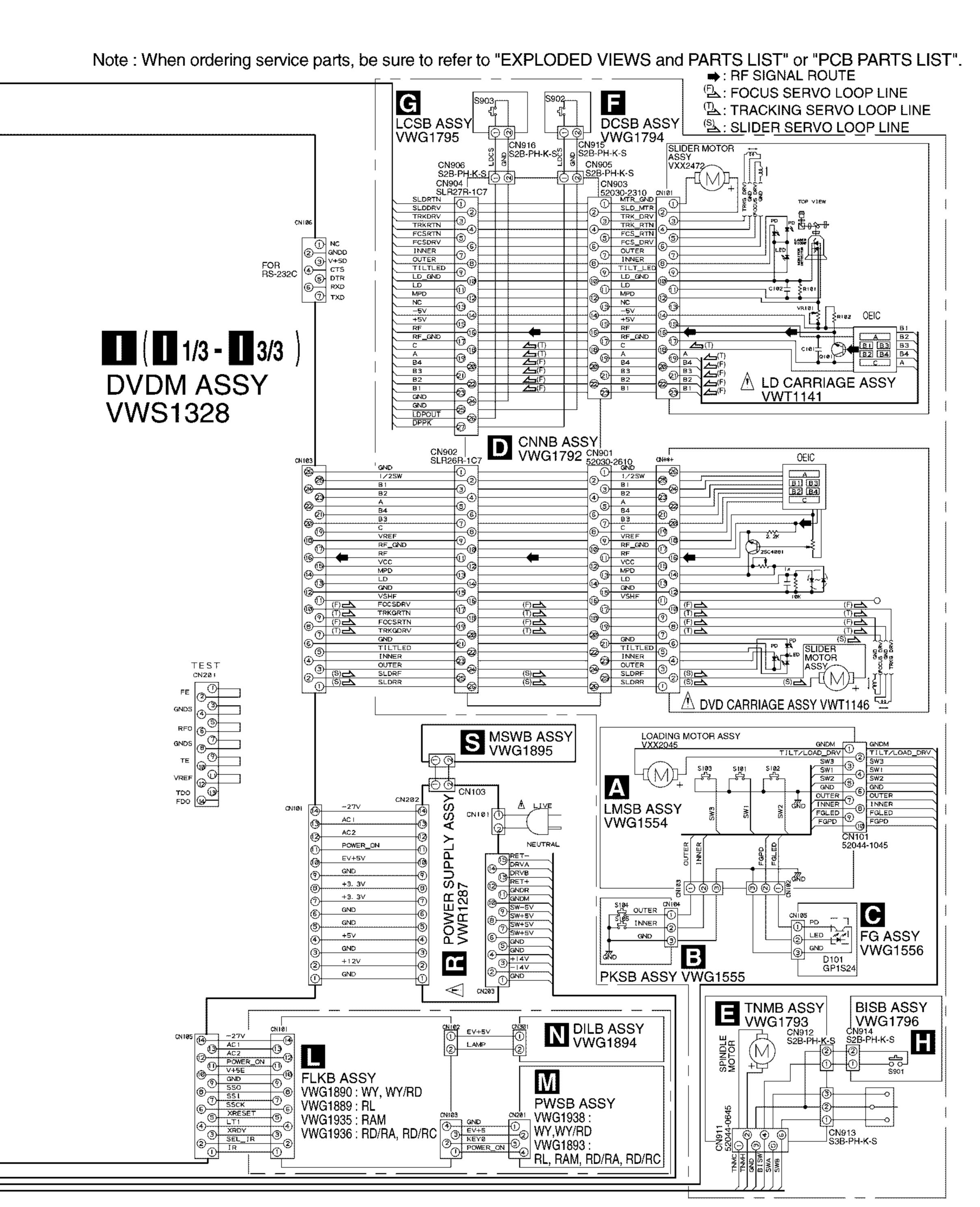
• CLD CARRIAGE ASSY PARTS LIST

| Mark | No | . Description | Part No. | | |
|------|----|-------------------|--------------|--|--|
| | 1 | CA Gear (A) | VNL1782 | | |
| | 2 | CA Gear (B) | VNL1639 | | |
| | | Slider Motor Assy | VXX2472 | | |
| | 4 | Motor Holder | VNL1779 | | |
| | 5 | Thrust Holder | VBK1058 | | |
| | 6 | Screw | PBZ20P050FMC | | |
| | 7 | Screw | PMA20P033FUC | | |

В







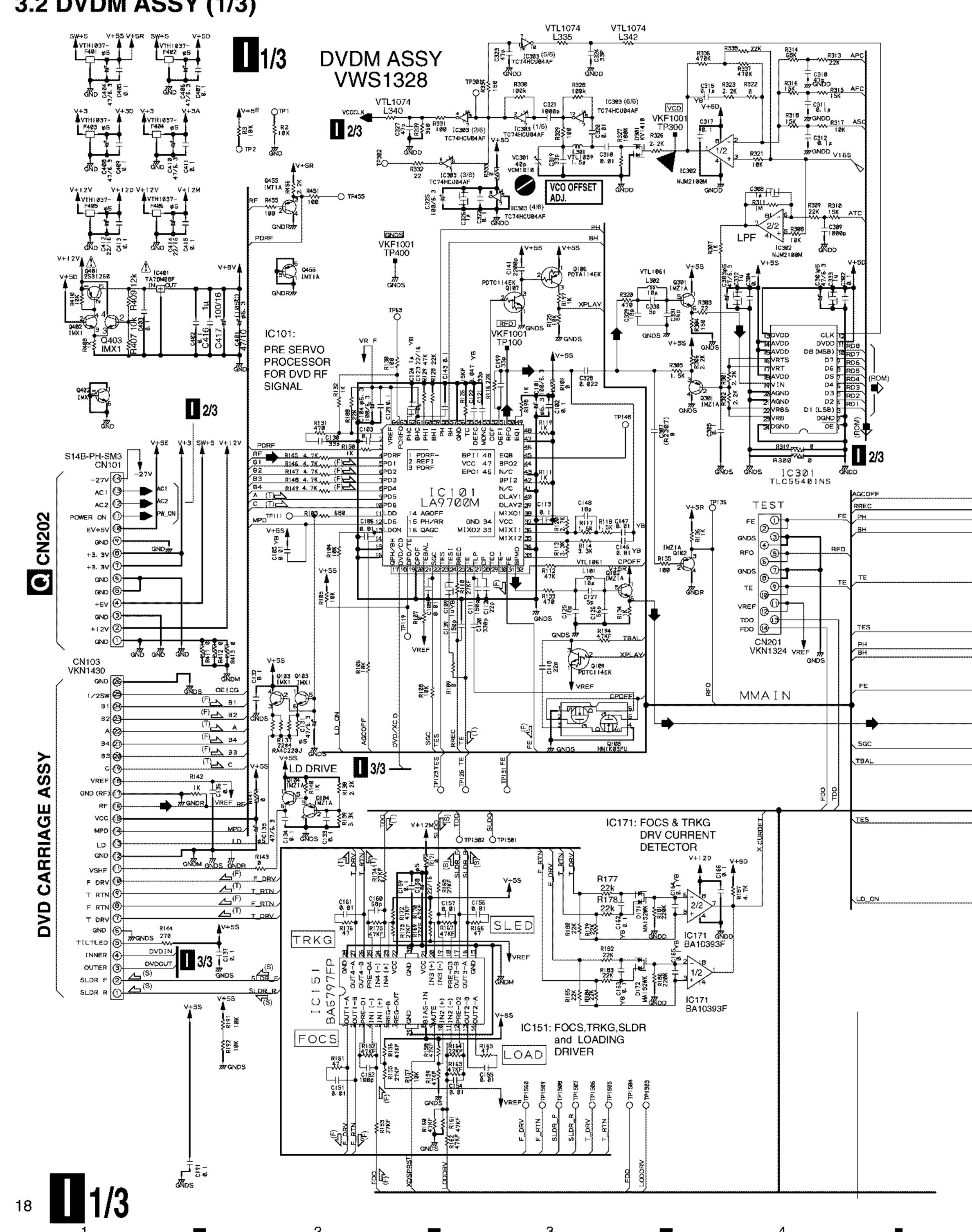
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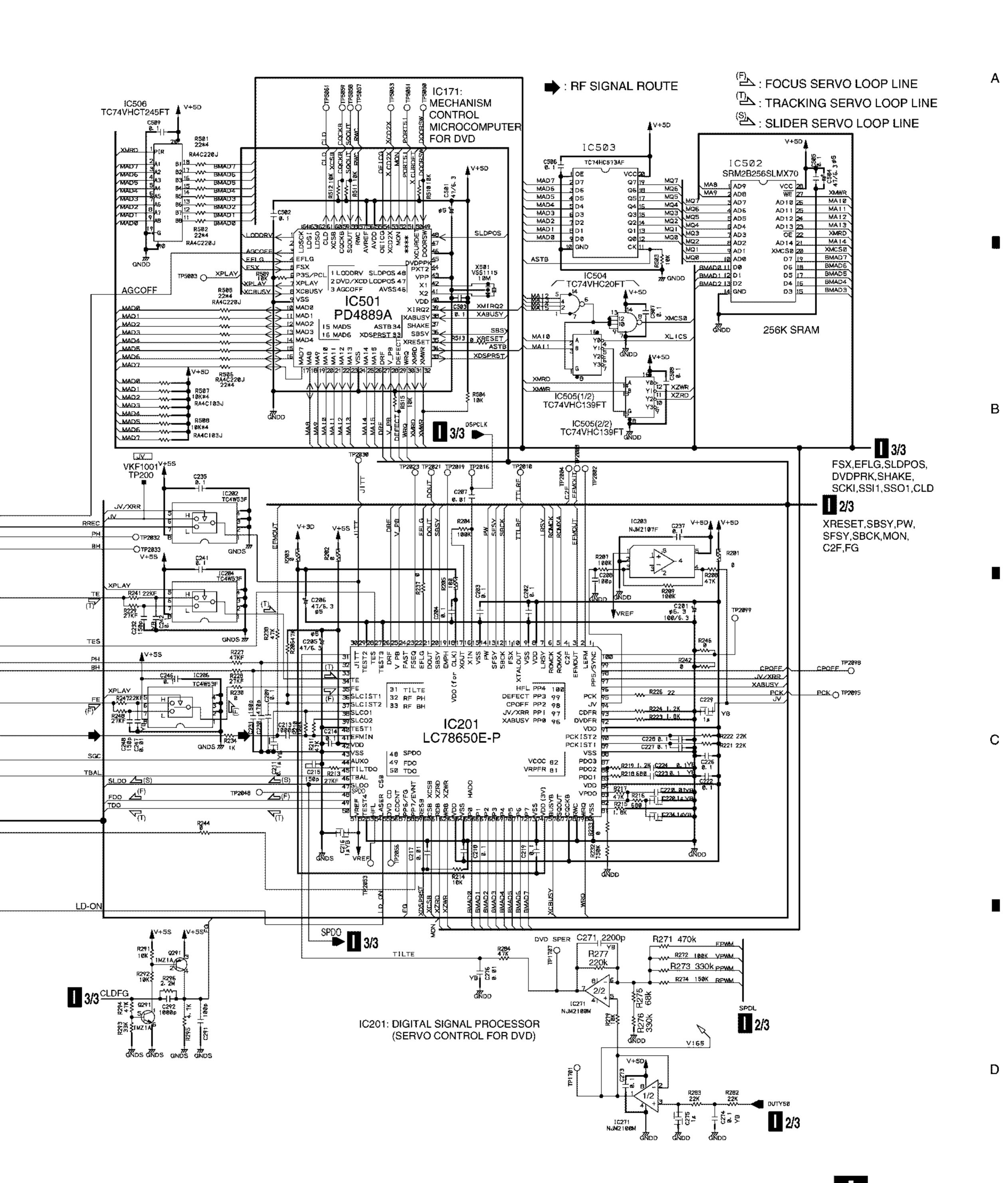
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3.2 DVDM ASSY (1/3)





1/3

IC605(2/2) F TC74VHC139FT

V+3D₄

IC601: SYSTEM

CONTROL

MICROCOMPUTER

X602 VSS1114 20MHz

SEL_IR

Q771,Q772: PDTC114TK

F779 ₹ DTF1067 \$

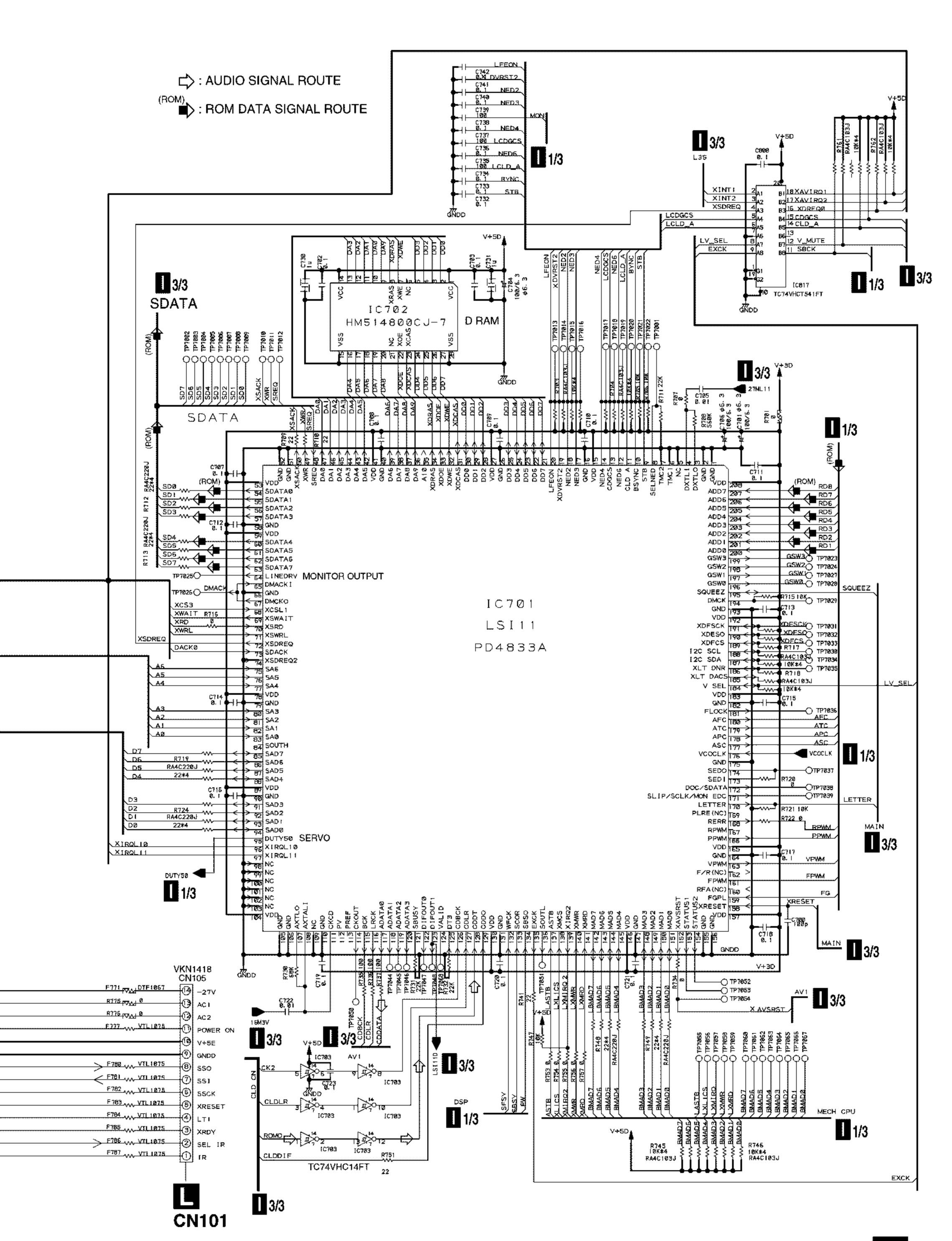
12.9 克美

GNDD

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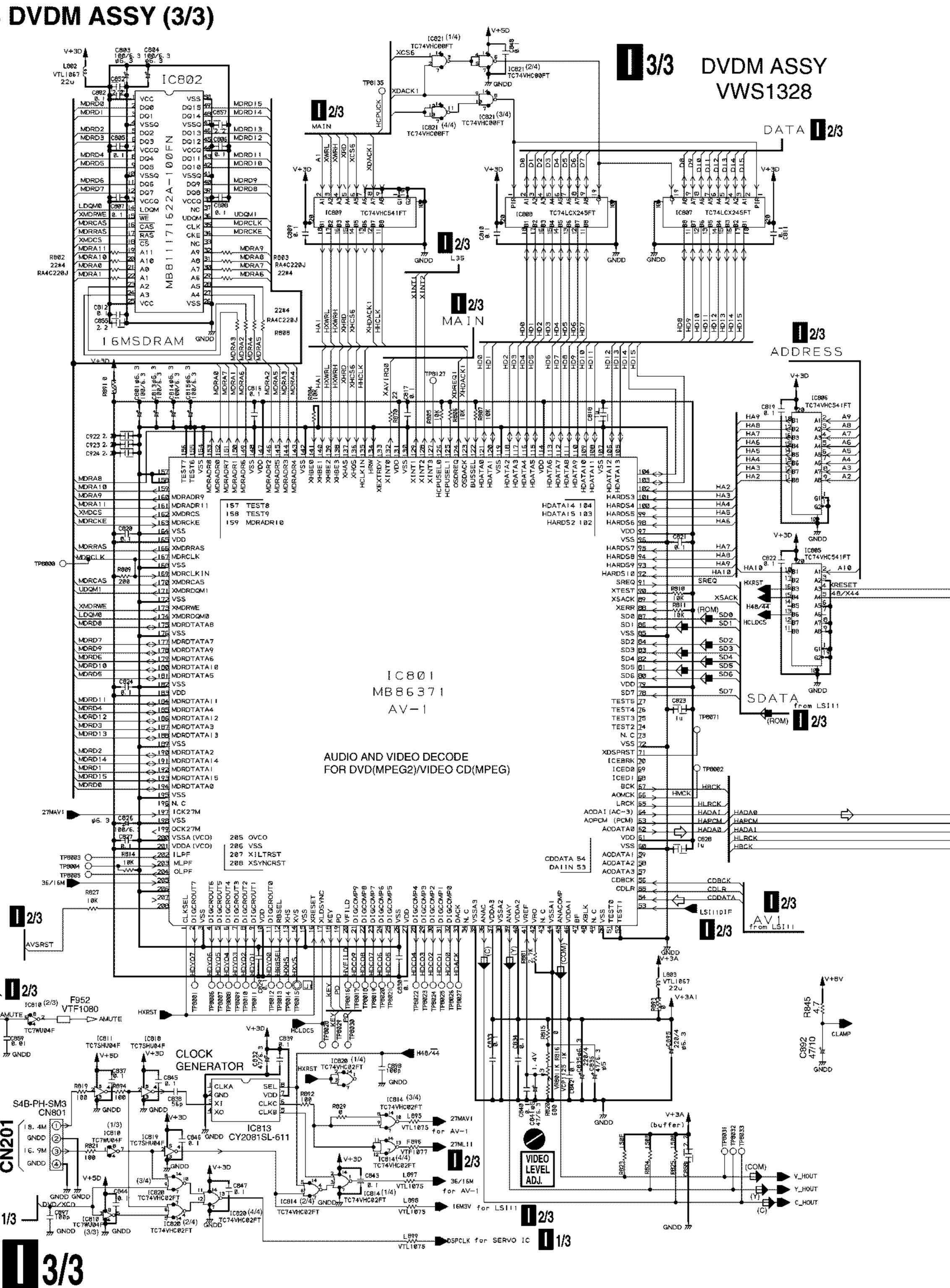
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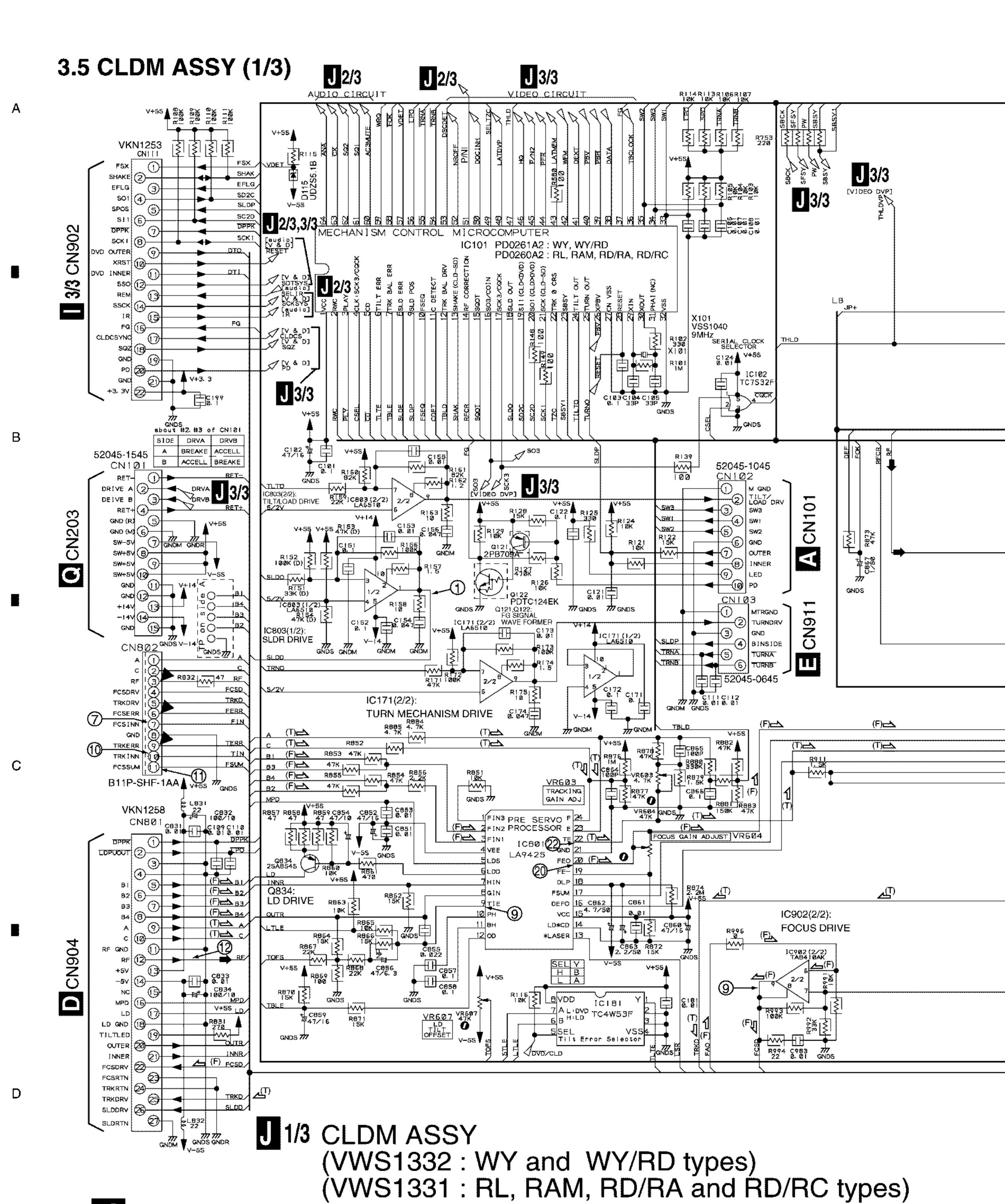
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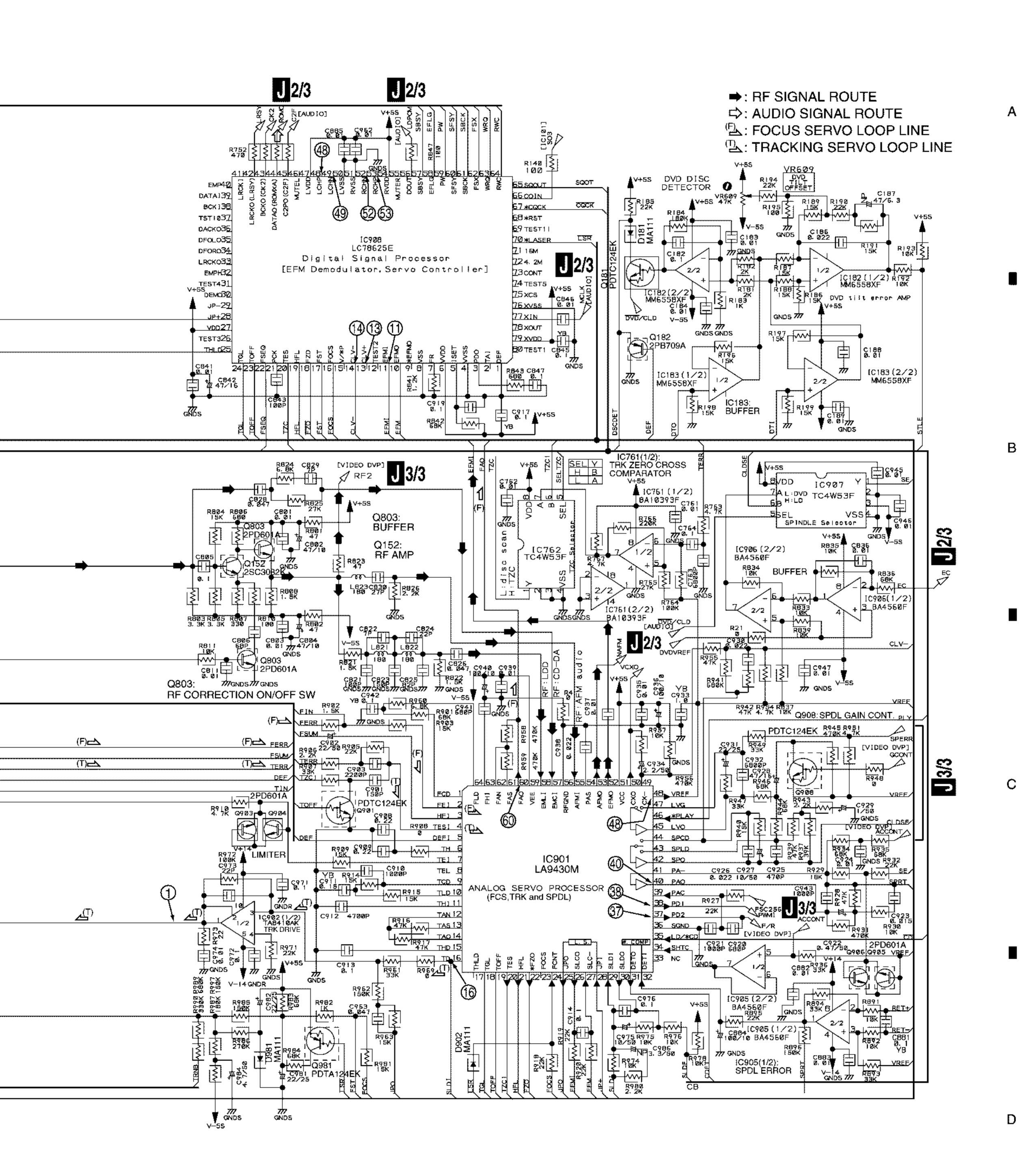
В

3.4 DVDM ASSY (3/3)



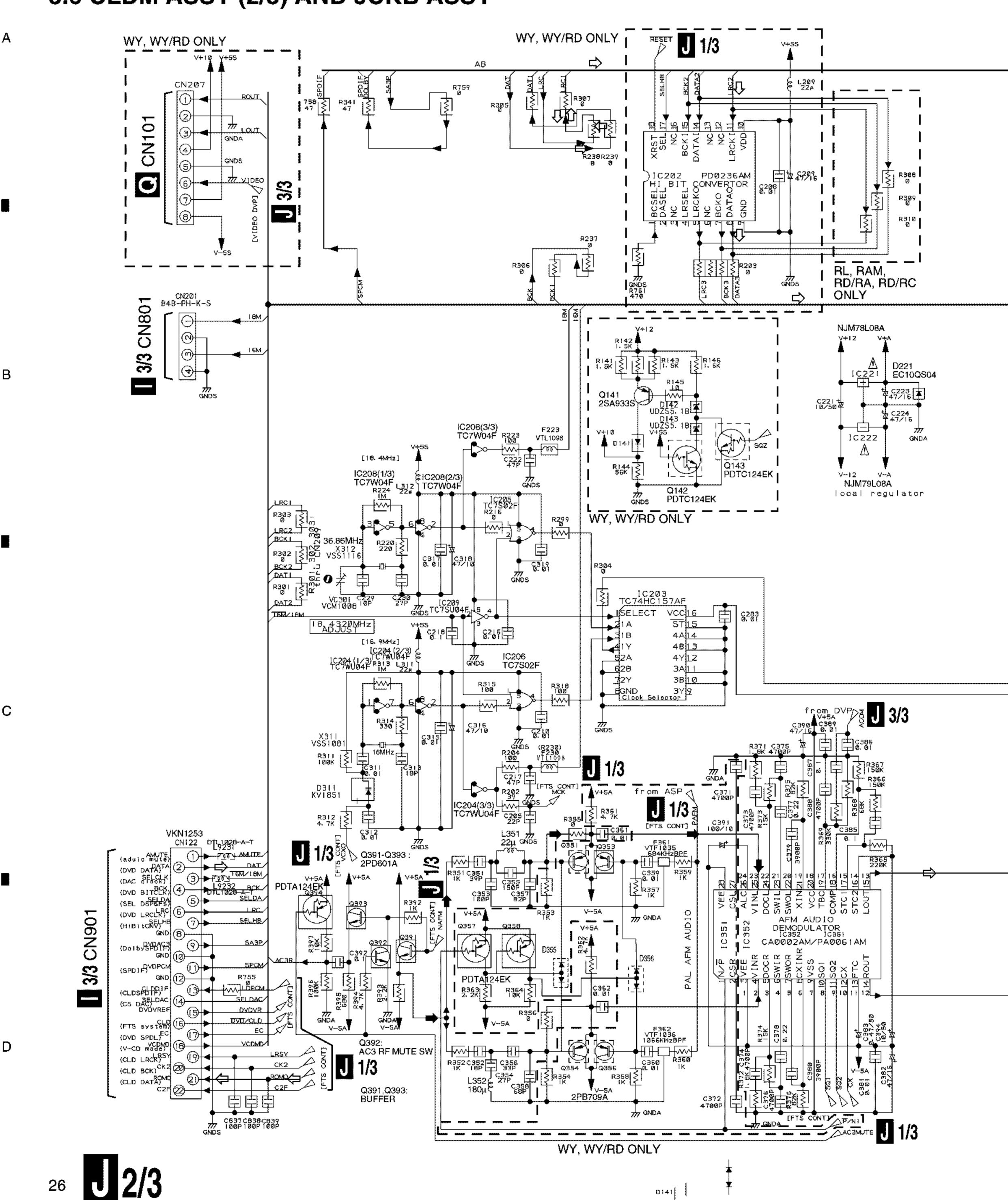
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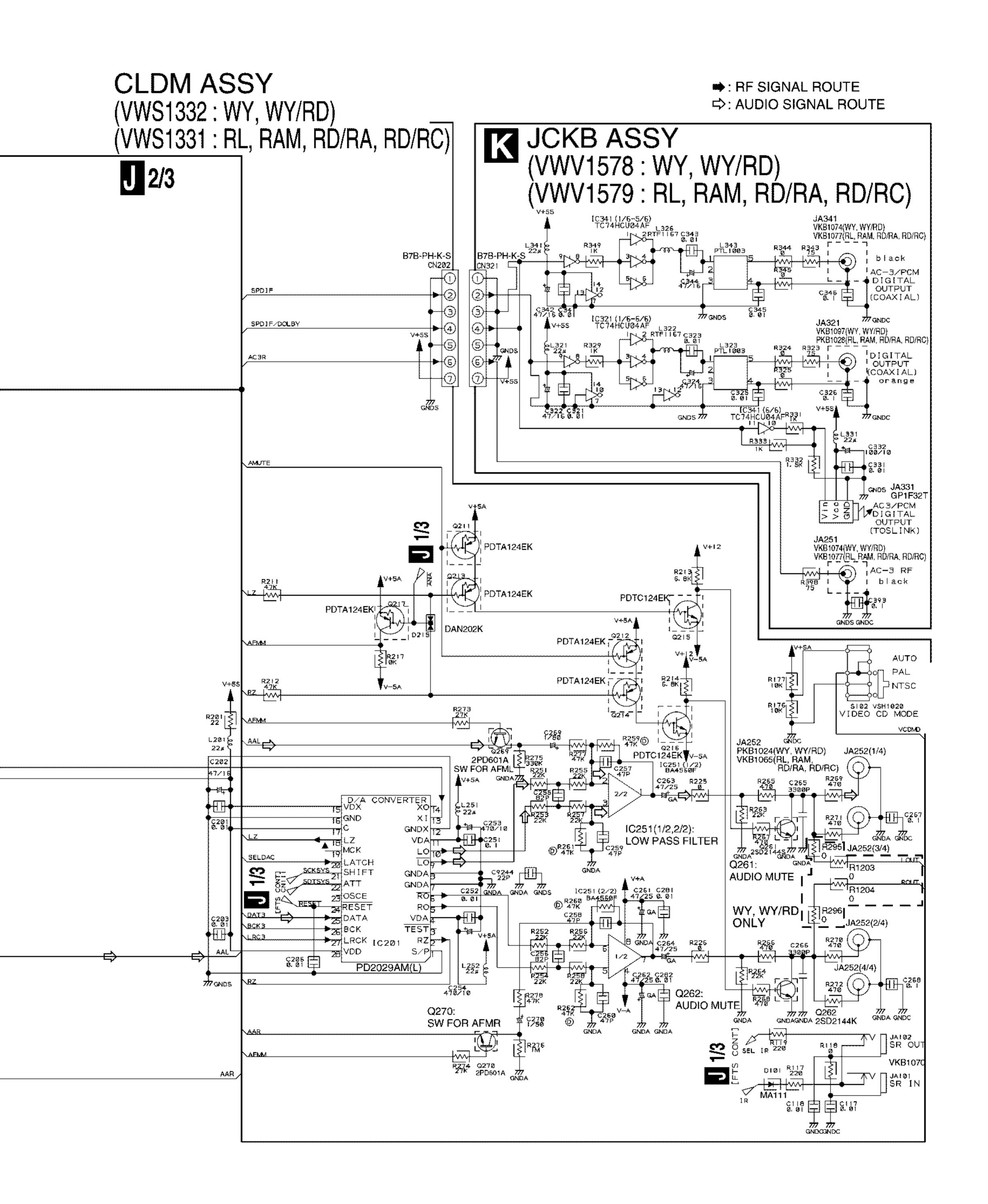
1/3

3.6 CLDM ASSY (2/3) AND JCKB ASSY



Α

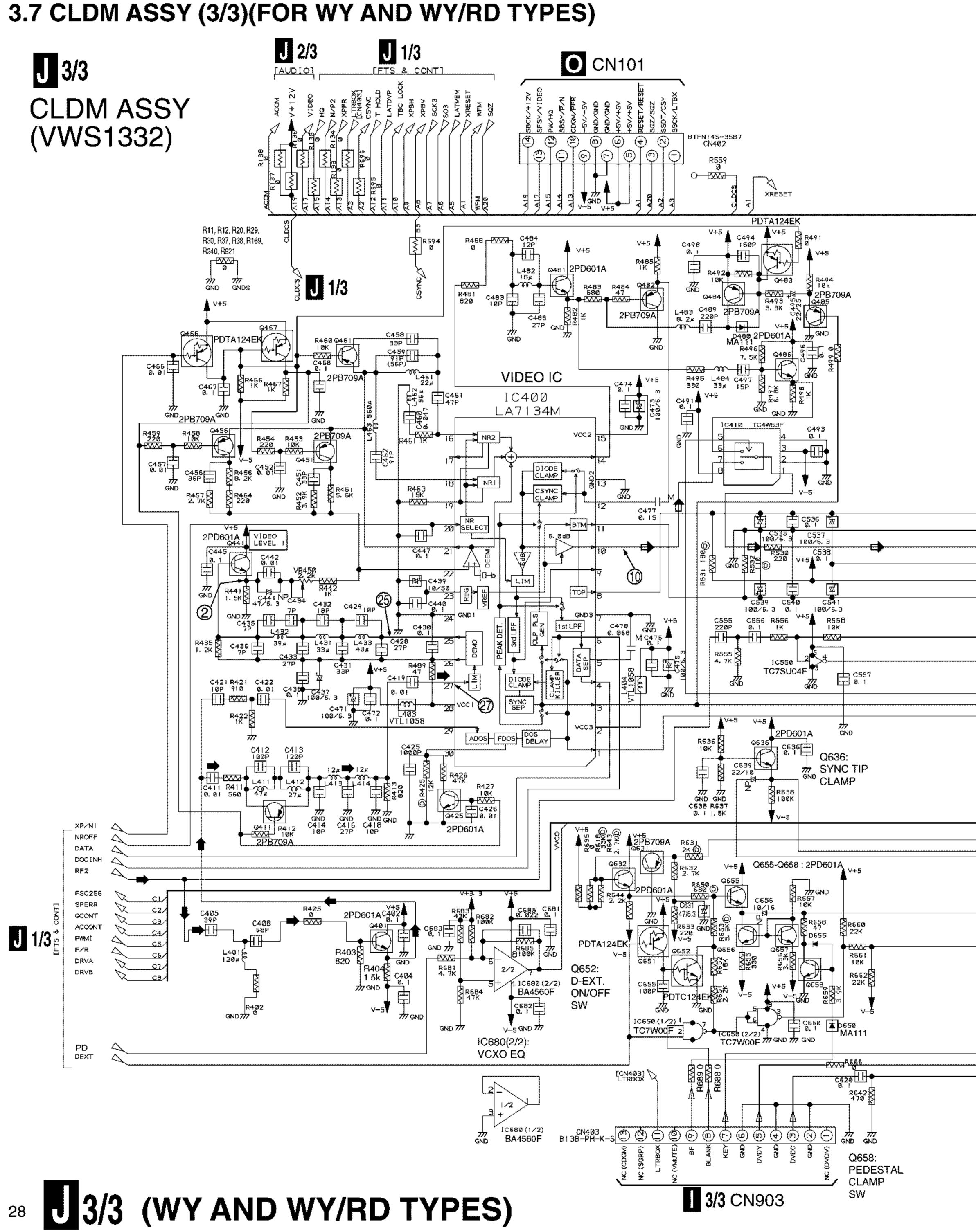
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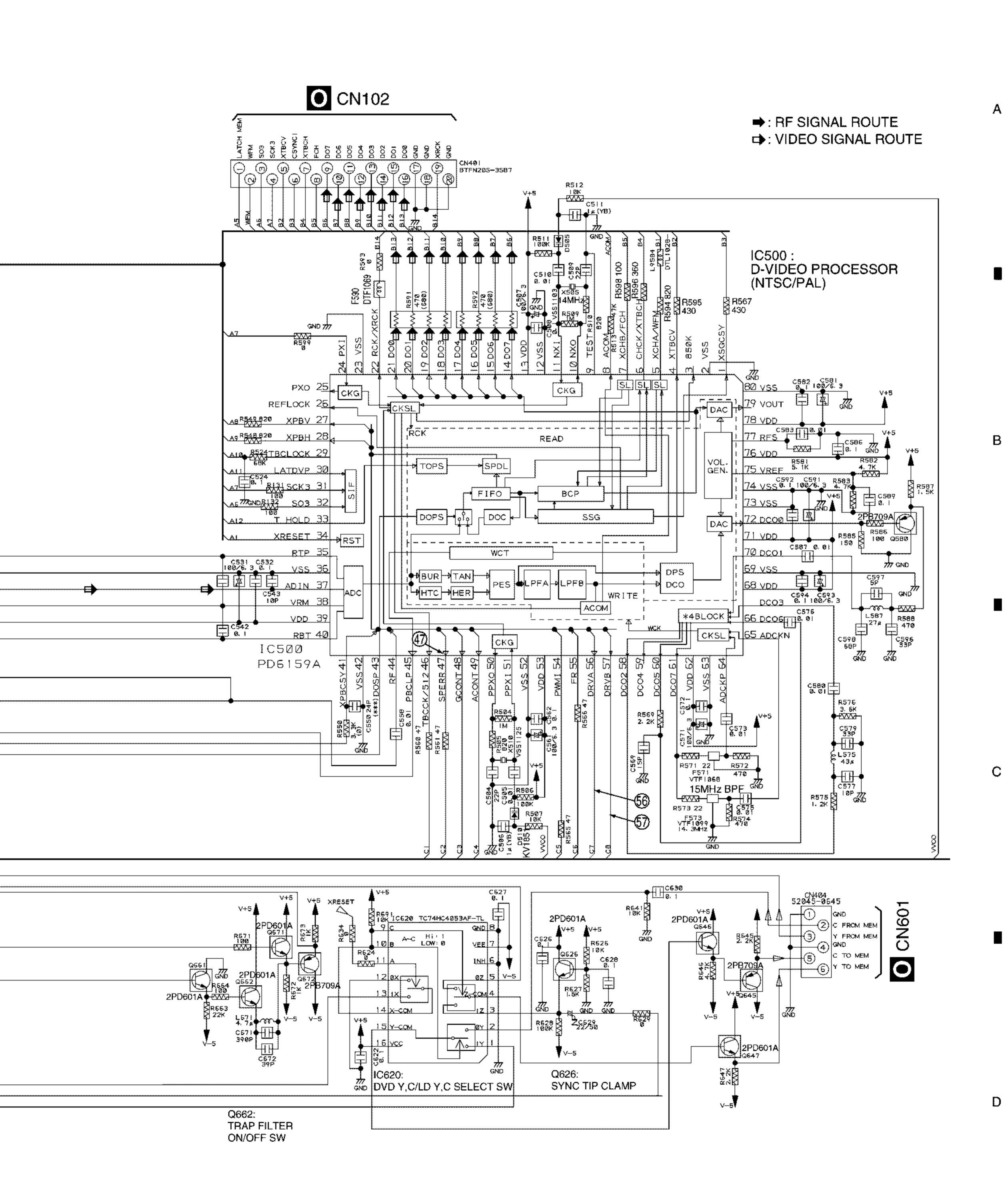


27

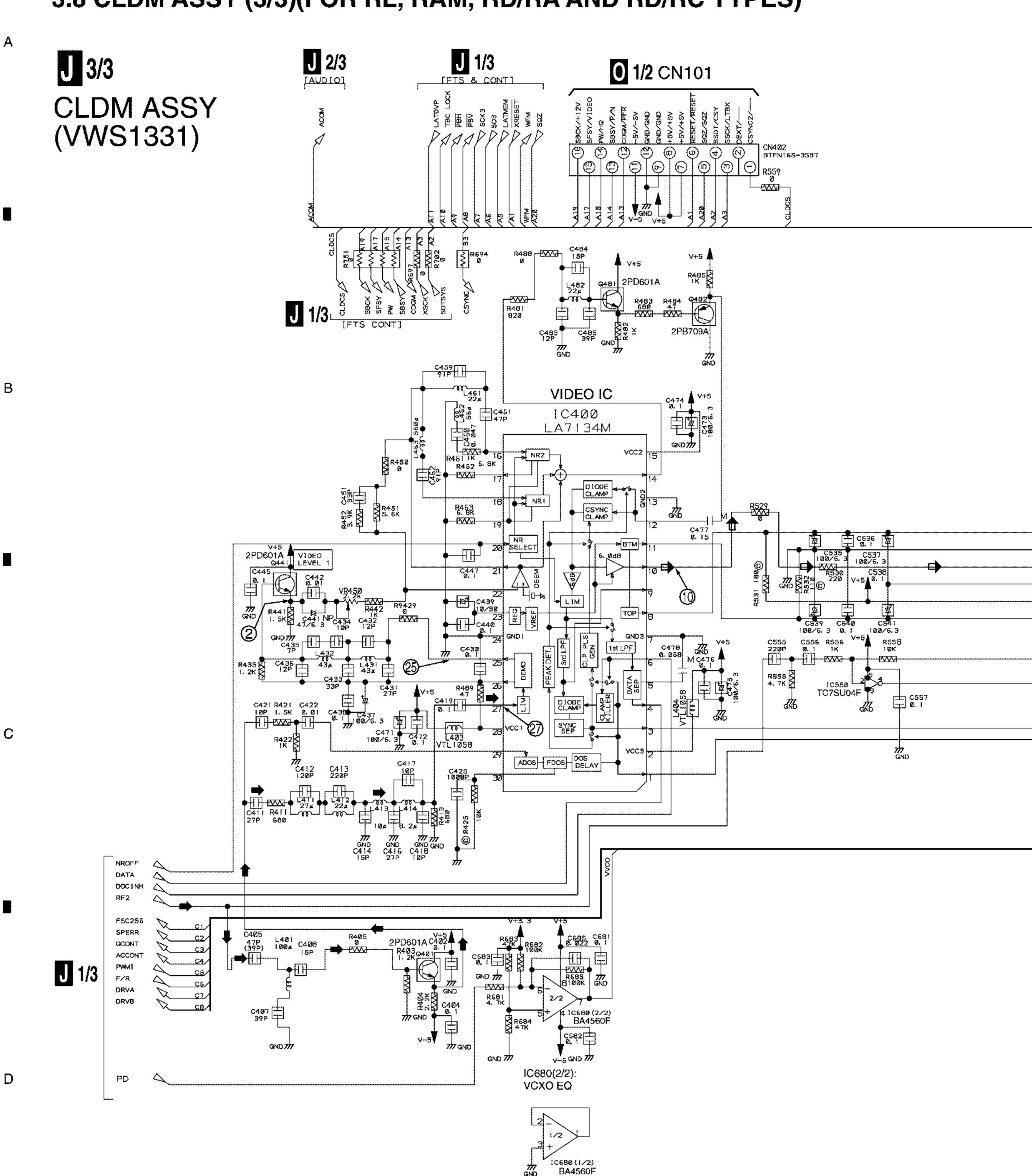
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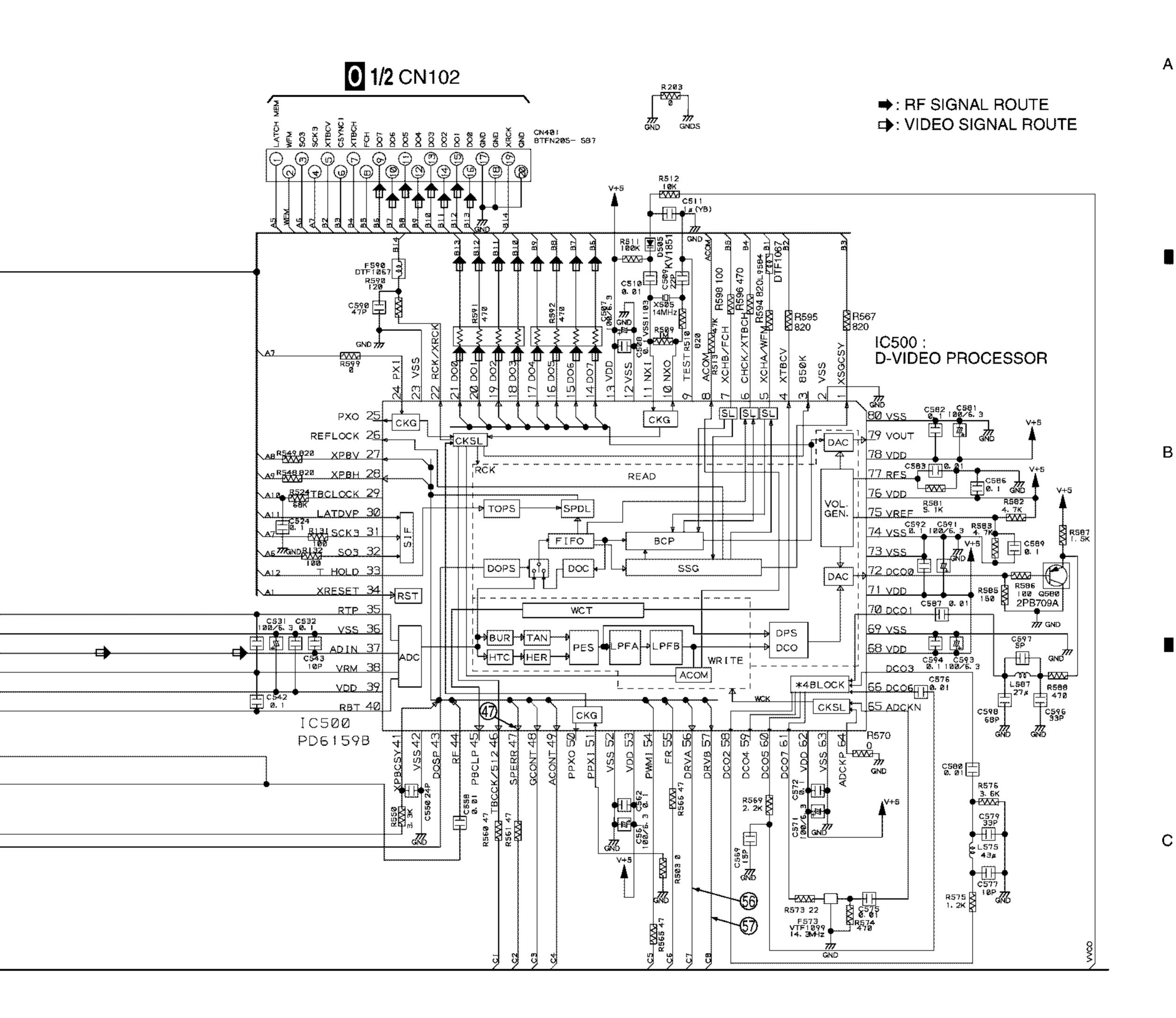


3.8 CLDM ASSY (3/3)(FOR RL, RAM, RD/RA AND RD/RC TYPES)

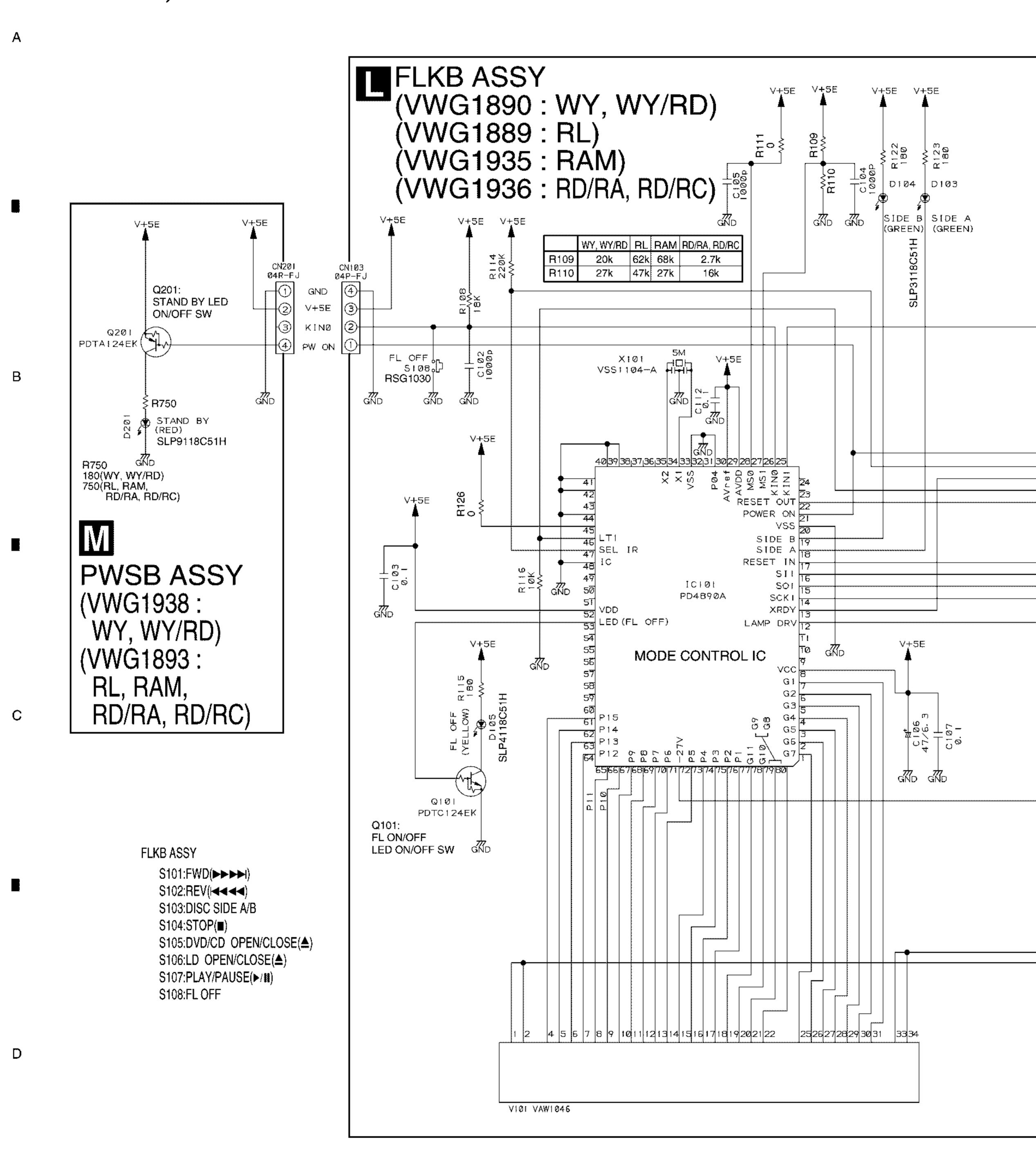


30 3/3 (RL, RAM, RD/RA AND RD/RC TYPES)

4



3.9 FLKB, PWSB AND DILB ASSEMBLIES



32

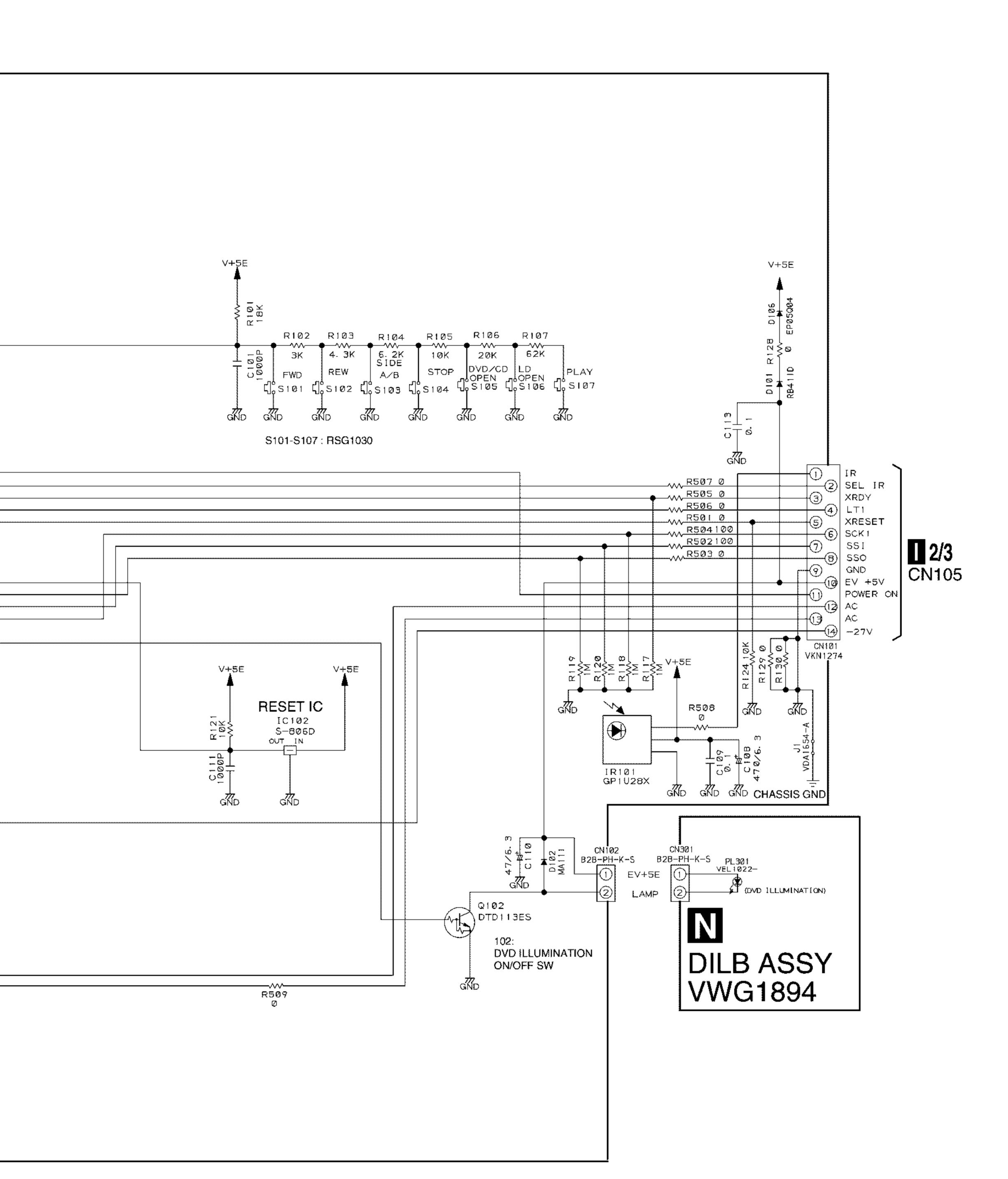
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В

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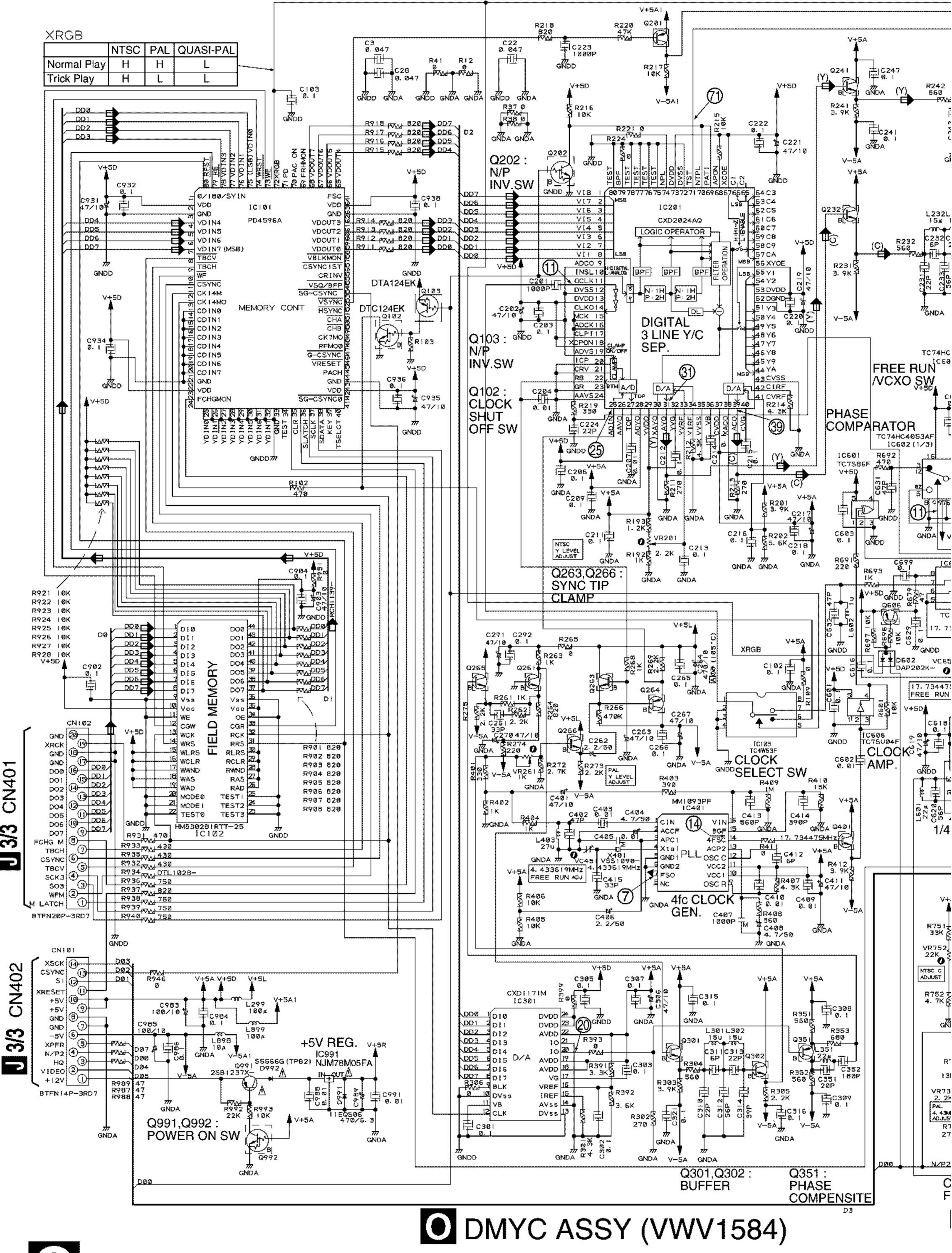
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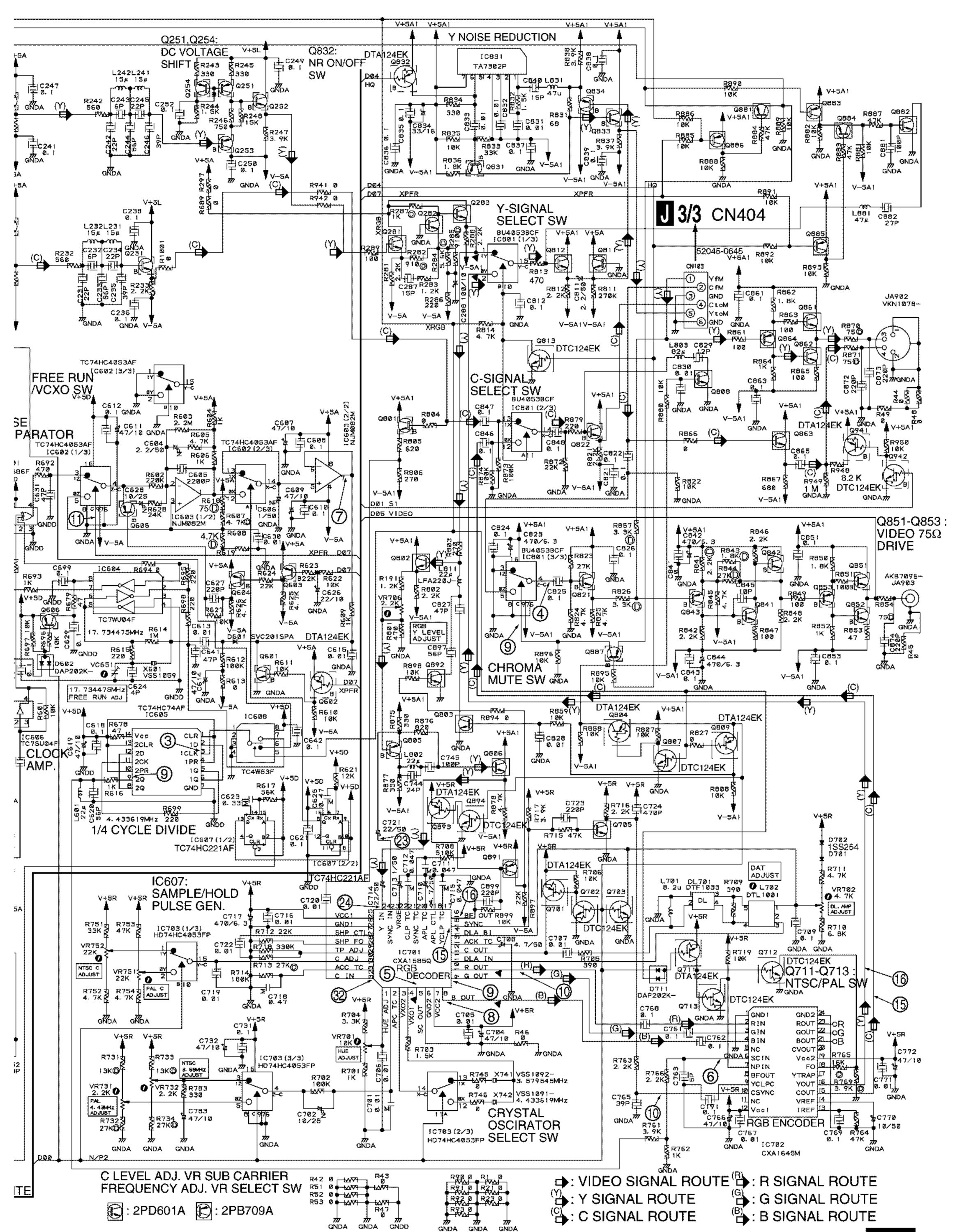
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3.10 DMYC ASSY (WY AND WY/RD TYPES ONLY)



(WY AND WY/RD TYPES ONLY)

Α

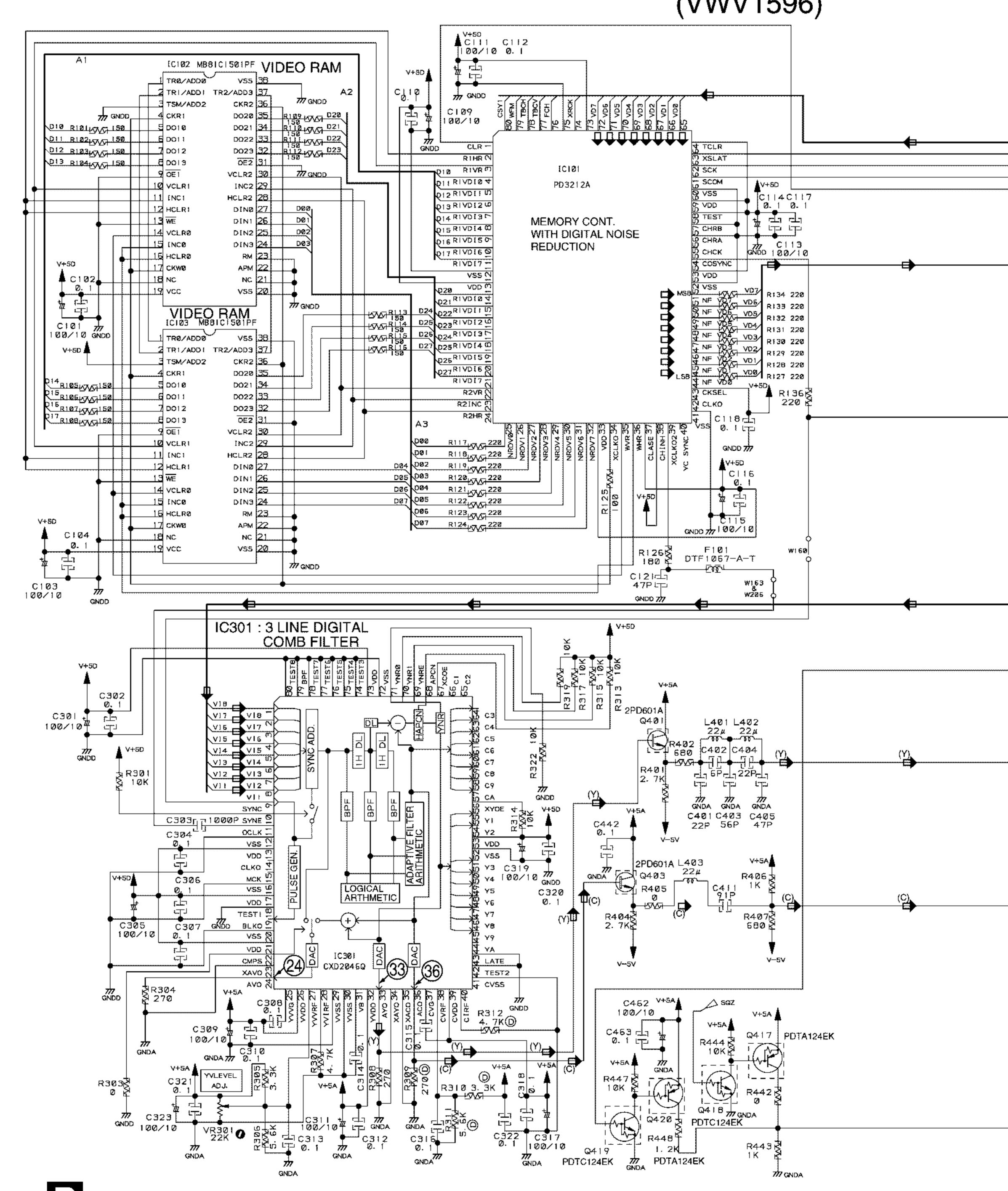


(WY AND WY/RD TYPES ONLY)

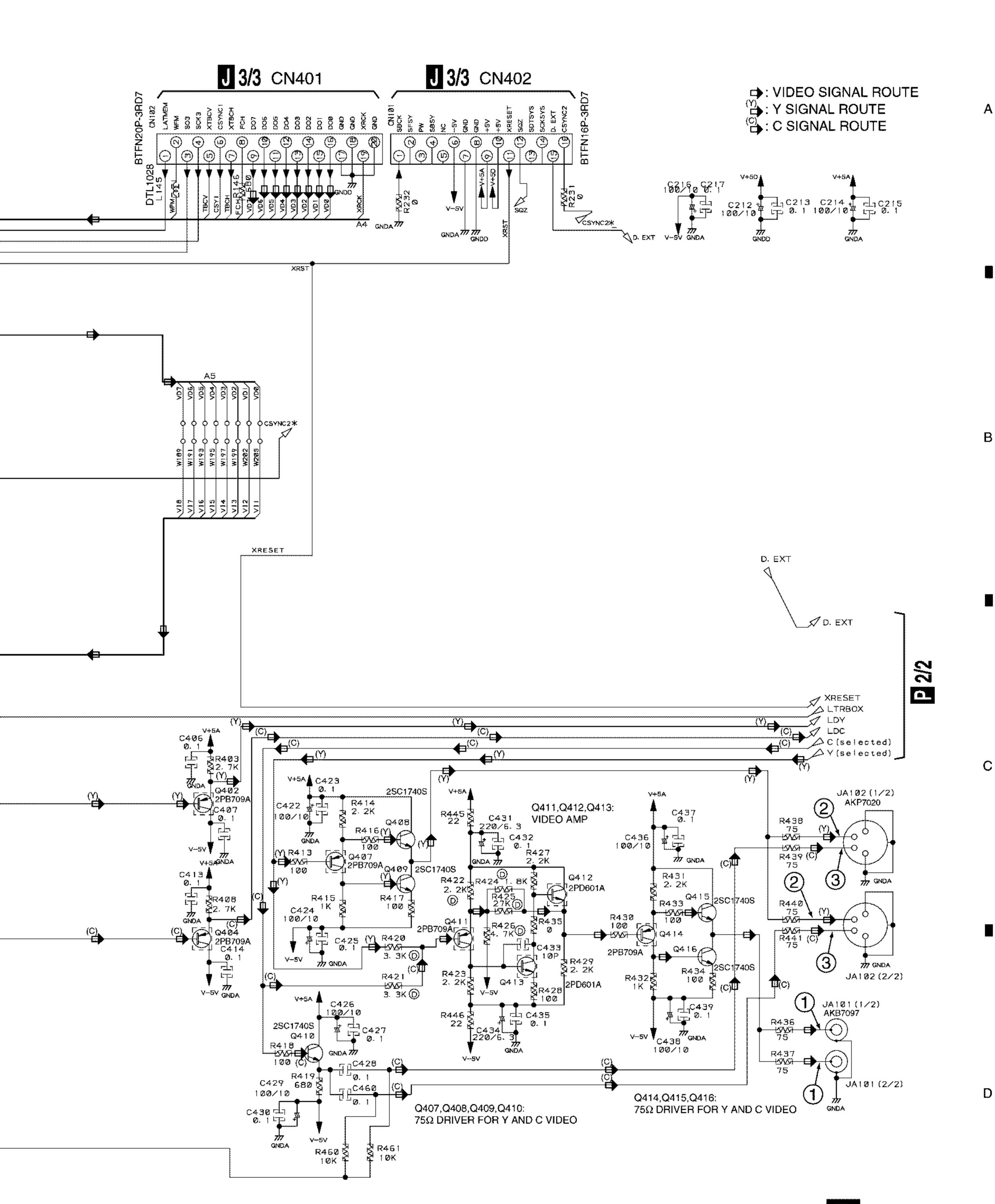
Α

3.11 MYCB ASSY (1/2)(RL, RAM, RD/RA AND RD/RC TYPES ONLY)

P 1/2 MYCB ASSY (VWV1596)

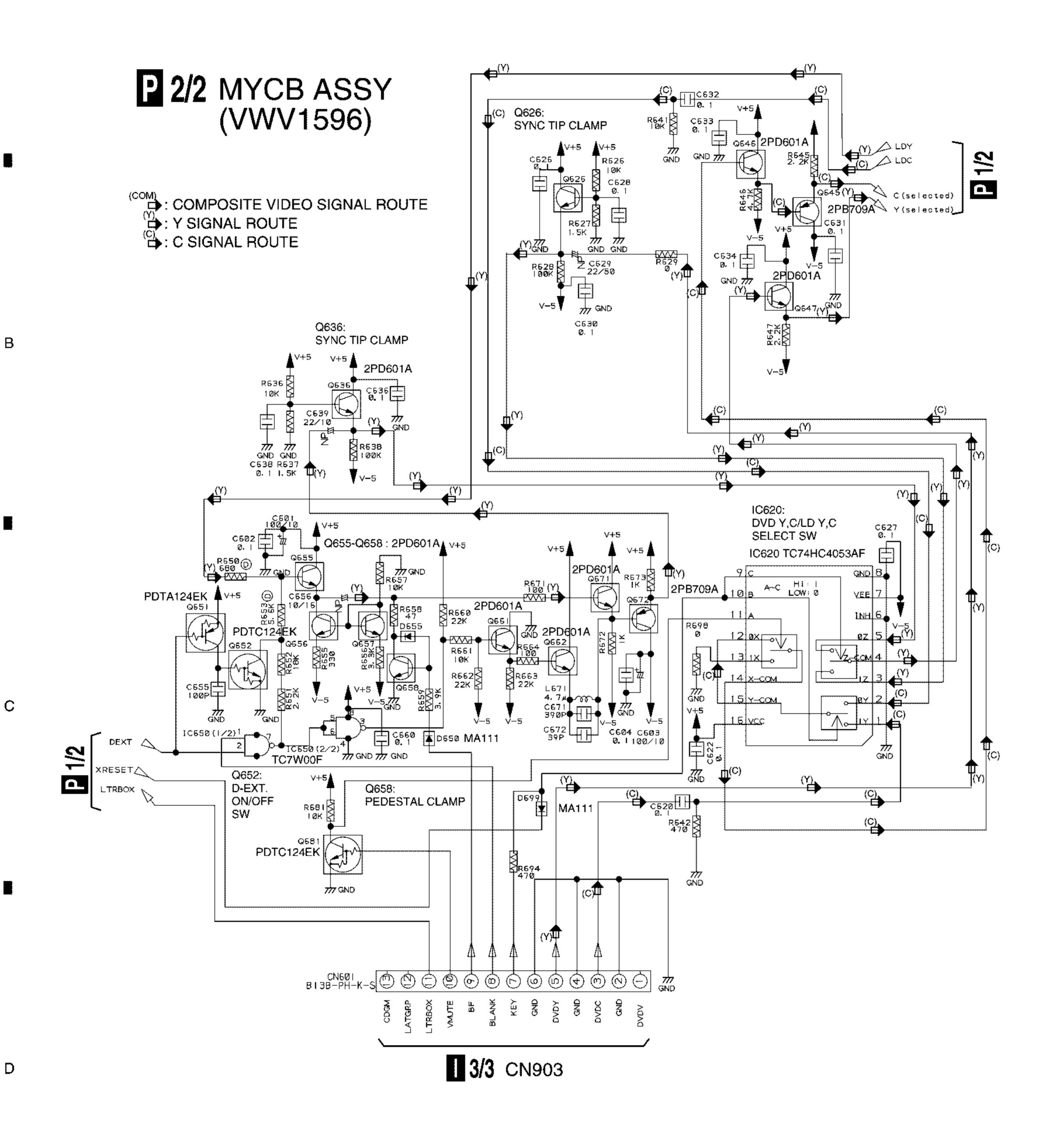


36 1/2 (RL, RAM, RD/RA AND RD/RC TYPES ONLY)

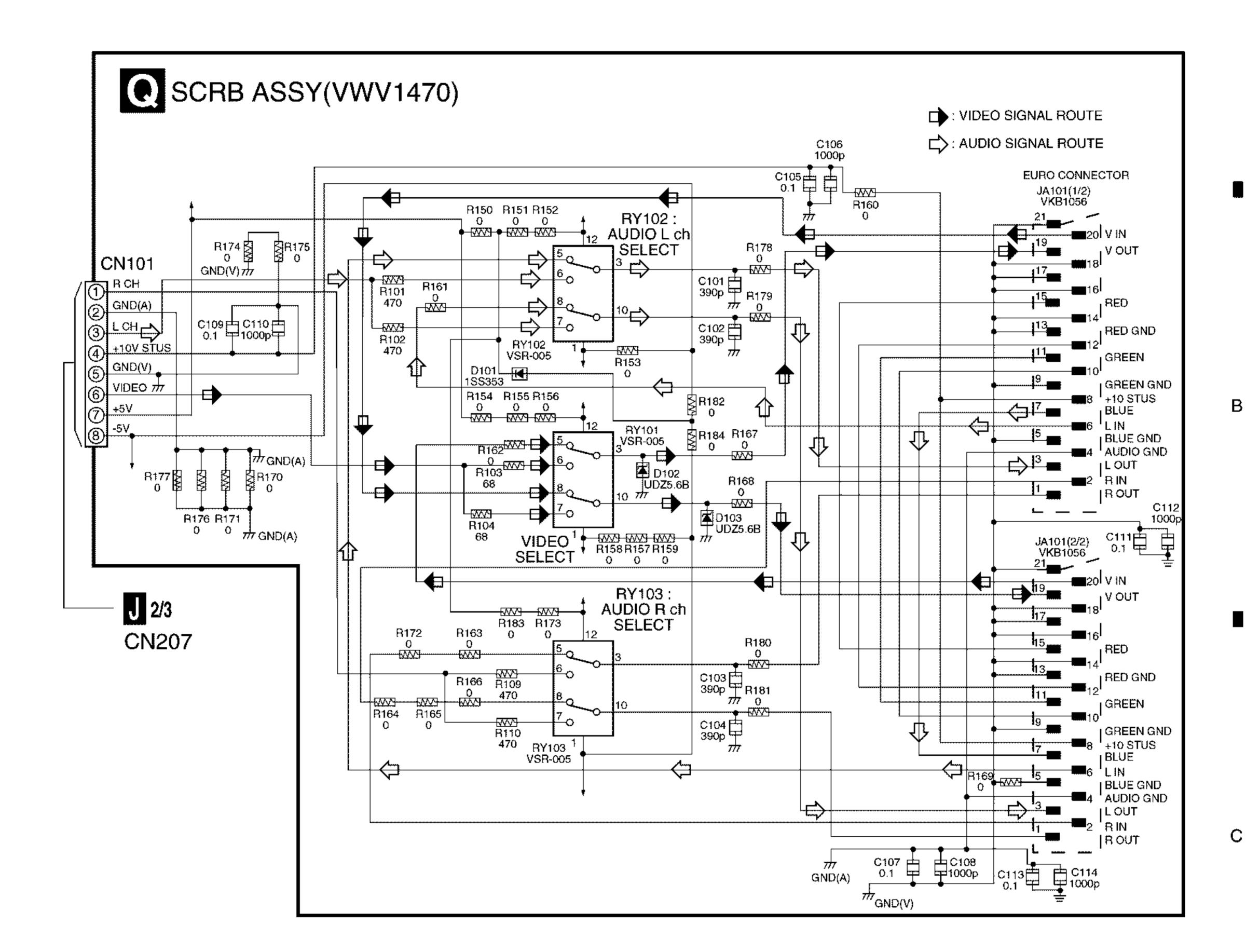


(RL, RAM, RD/RA AND RD/RC TYPES ONLY) 1/2

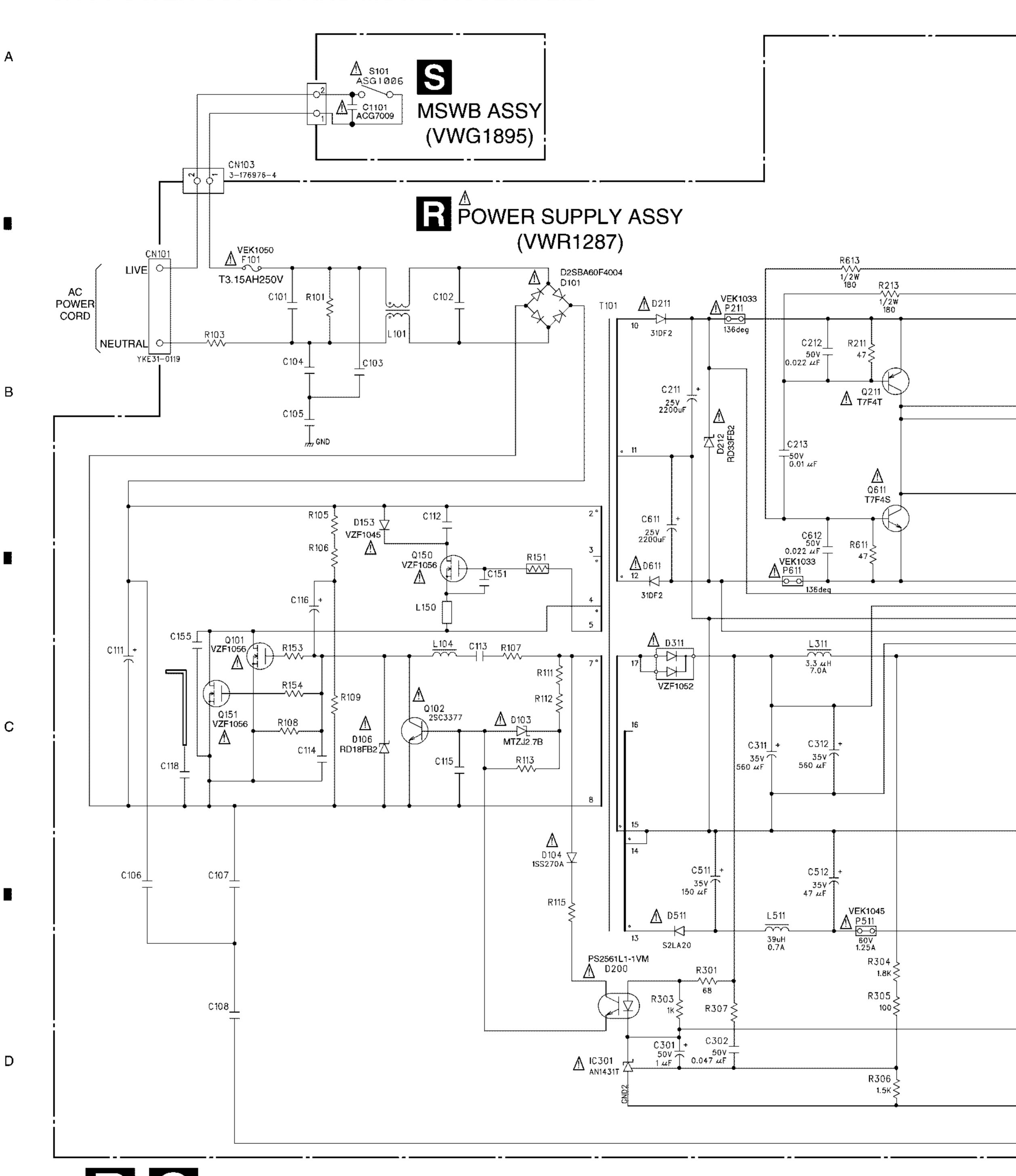
3.12 MYCB ASSY (2/2)(RL, RAM, RD/RA AND RD/RC TYPES ONLY)



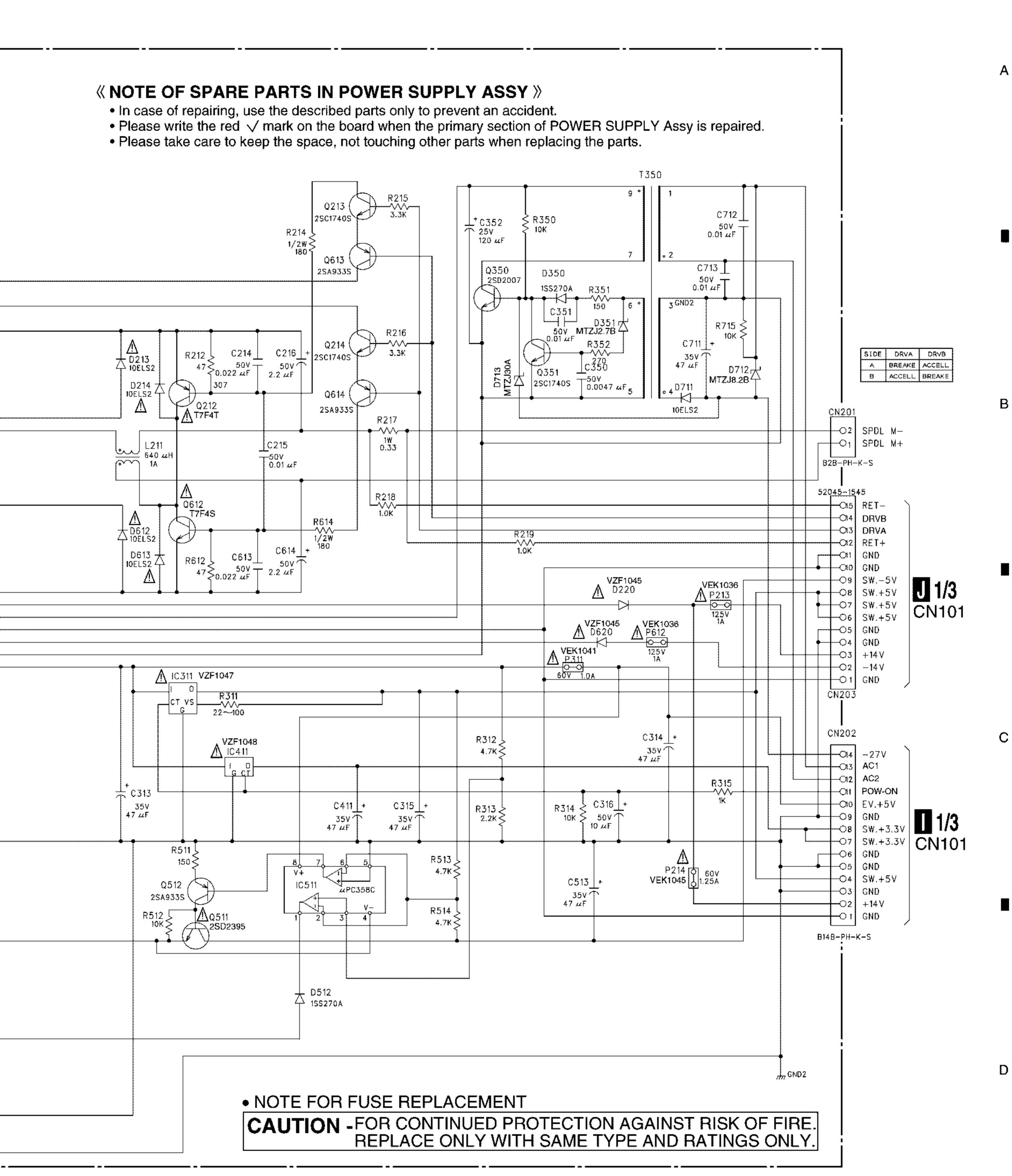
3.13 SCRB ASSY (WY AND WY/RD TYPES ONLY)



3.14 POWER SUPPLY AND MSWB ASSEMBLIES



40 Bi S

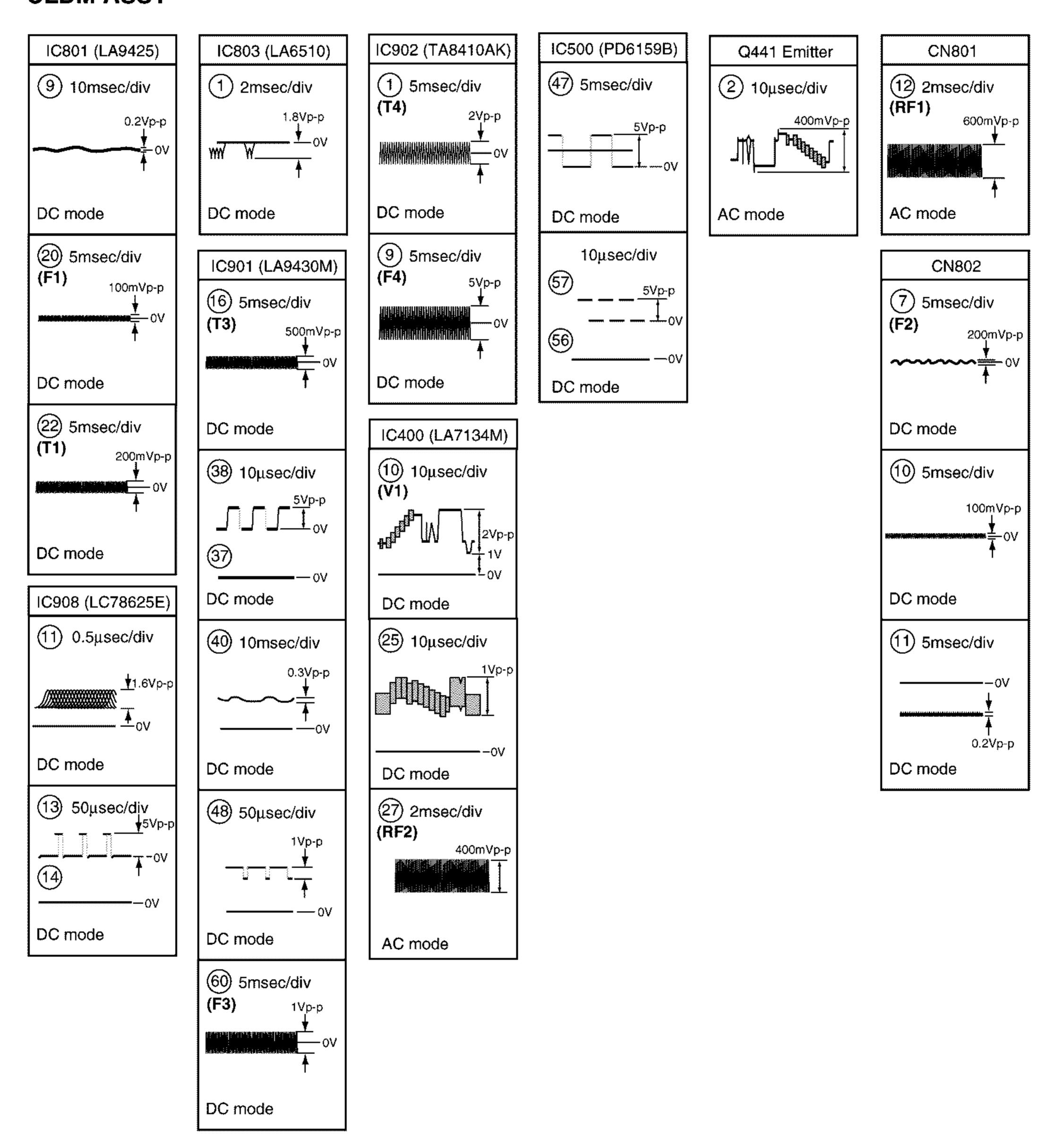


• WAVEFORMS AND VOLTAGES

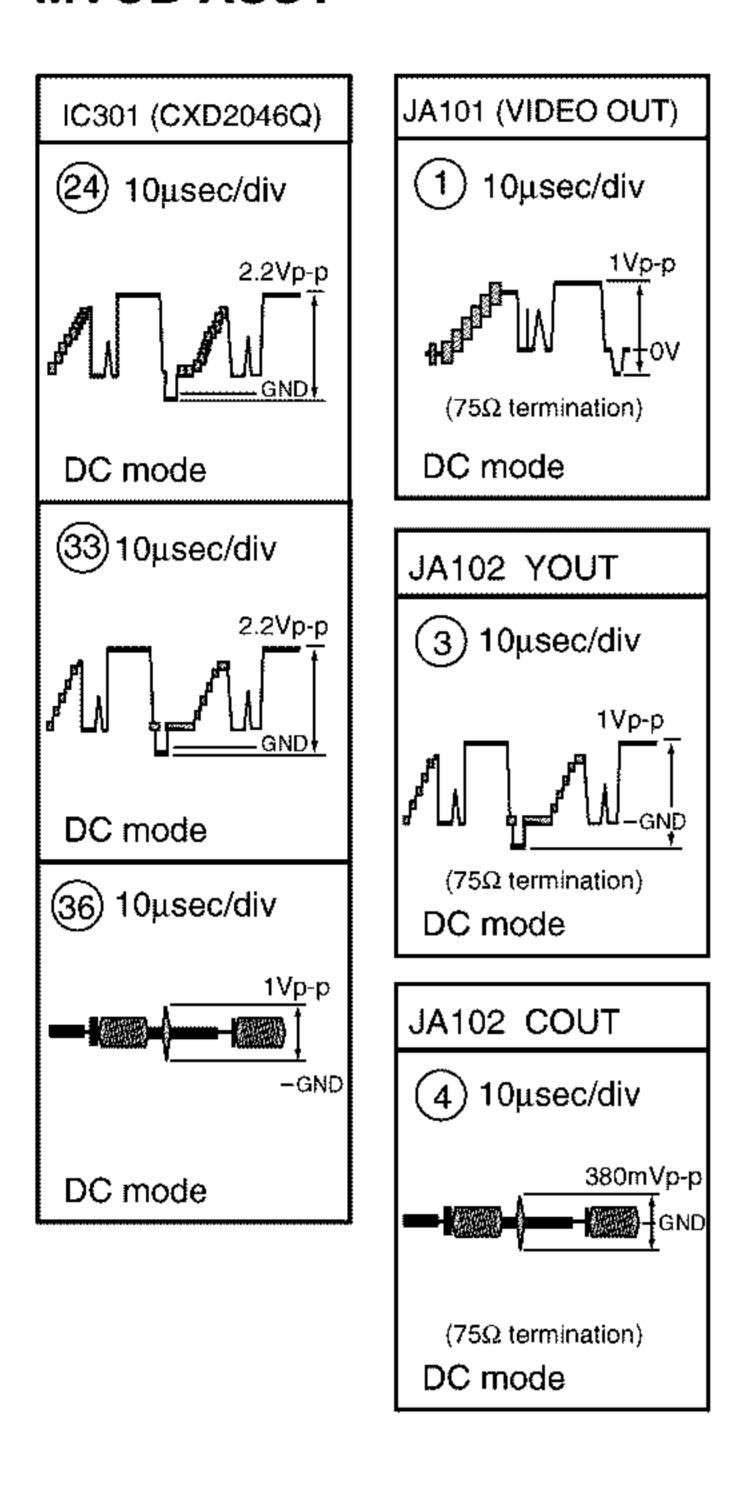
Note: (No) in the table correspond to the pin number.

Measurement condition: In case when (D.audio) is written, at time when disc that has digital audio recording is played.

CLDM ASSY

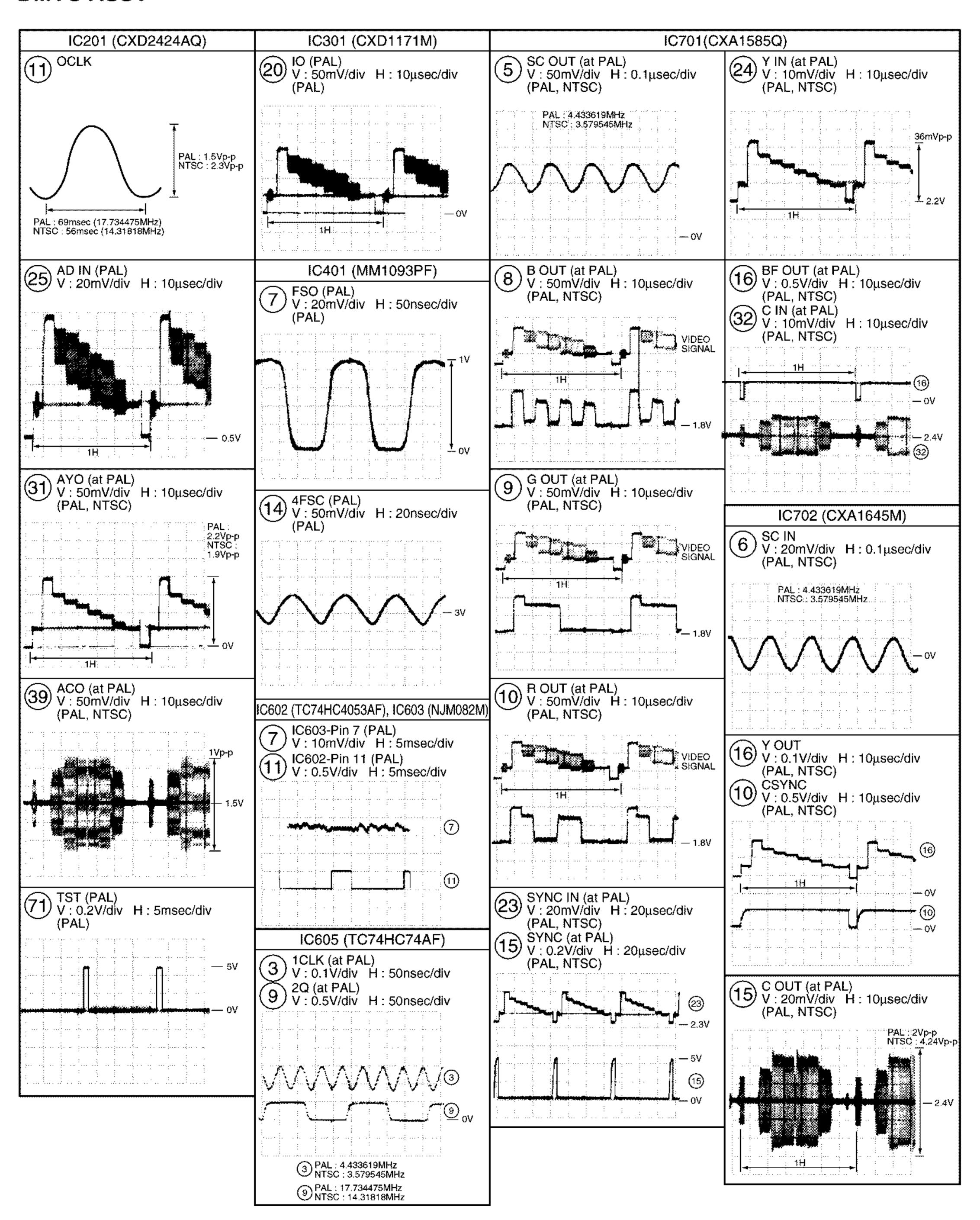


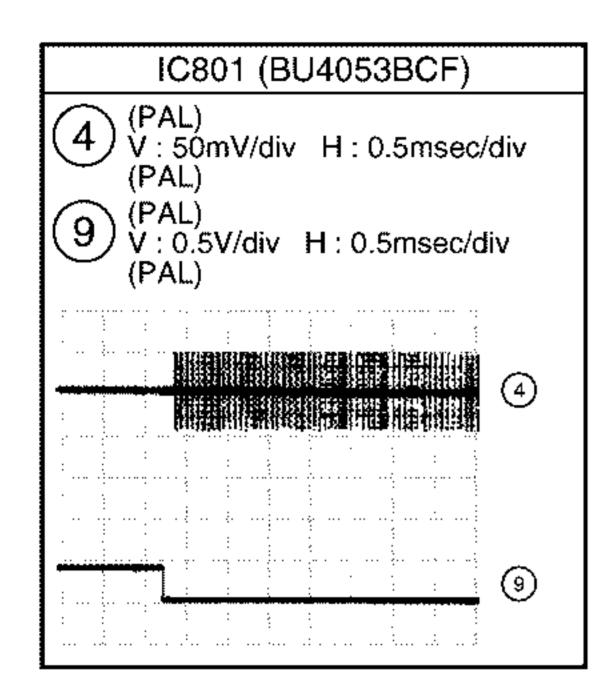
MYCB ASSY



DVL-909

DMYC ASSY





IC201 (CXD2024AQ)

| | 71 (0712 | | - 17 (44,7 | | | | |
|-----|----------|-----|------------|-----|---------|-----|---------|
| Pin | Voltage | Pin | Voltage | Pin | Voltage | Pin | Voltage |
| No. | (V) | No. | (V) | No. | (V) | No. | (V) |
| 1 | 0 | 21 | 0 | 41 | 2.6 | 61 | 0 |
| 2 | 0 | 22 | 0.5 | 42 | 2.6 | 62 | 0 |
| 3 | 0 | 23 | 0 | 43 | 0 | 63 | 0 |
| 4 | 0 | 24 | 0 | 44 | 0 | 64 | 0 |
| 5 | 0 | 25 | | 45 | 0 | 65 | 0 |
| 6 | 0 | 26 | 5 | 46 | 0 | 66 | 0 |
| 7 | 0 | 27 | 2.6 | 47 | 0 | 67 | 5 |
| 8 | 0 | 28 | 5 | 48 | 0 | 68 | 5 |
| 9 | 0 | 29 | 5 | 49 | 0 | 69 | _ |
| 10 | 0 | 30 | 0 | 50 | 0 | 70 | _ |
| 11 | 2.3 | 31 | 1 | 51 | 0 | 71 | - |
| 12 | 0 | 32 | 3.4 | 52 | 0 | 72 | 0 |
| 13 | 5 | 33 | 2.6 | 53 | 5 | 73 | 5 |
| 14 | 2.4 | 34 | 2.6 | 54 | 0 | 74 | 0 |
| 15 | 2.4 | 35 | 0 | 55 | 0 | 75 | 0 |
| 16 | 2.5 | 36 | 1.1 | 56 | 5 | 76 | 0 |
| 17 | 5 | 37 | 5 | 57 | 0 | 77 | 0 |
| 18 | 5 | 38 | 0 | 58 | 0 | 78 | 0 |
| 19 | 0 | 39 | 1.3 | 59 | 0 | 79 | 0 |
| 20 | 0 | 40 | 3.4 | 60 | 0 | 80 | 0 |

IC301 (CXD1171M)

| Pin No. | Voltage (V) | Pin No. | Voltage (V) |
|------------|----------------|------------|----------------|
| 1 | | 13 | 0 |
| 2 | _ | 14 | 0 |
| 3 | _ | 15 | 2.1 |
| 4 | | 16 | 2.1 |
| 5 | | 17 | 2.5 |
| 6 | | 18 | 4 |
| 7 | _ | 19 | 4 |
| 8 | _ | 20 | _ |
| 9 | 0 | 21 | 0 |
| 10 | 0 | 22 | 4 |
| 11 | 0.5 | 23 | 5 |

24

5

2.4

IC401 (MM1093PF)

| Pin No. | Voltage (V) | Pin No. | Voltage (V) |
|------------|----------------|------------|----------------|
| 1 | 3.3 | 9 | 3.4 |
| 2 | 0.7 | 10 | 5 |
| 3 | 2.4 | 11 | 5 |
| 4 | 3.2 | 12 | 3.2 |
| 5 | 0 | 13 | 2 |
| 6 | 0 | 14 | 2.9 |
| 7 | m | 15 | **** |
| 8 | 0 | 16 | - |

IC701 (CXA1585Q)

| Pin | Voltage | Pin | Voltage |
|-----|-------------------------|-----|---------|
| No. | (V) | No. | (V) |
| 1 | 2 | 17 | 3.1 |
| 2 | 3.4 | 18 | 3 |
| 3 | 3.1 | 19 | 2.5 |
| 4 | 3.2 | 20 | 3.1 |
| 5 | 1.6 | 21 | 3.1 |
| 6 | 0 | 22 | 4.2 |
| 7 | 5 | 23 | 2.5 |
| 8 | 2 | 24 | 2.5 |
| 9 | 2 | 25 | 0 |
| 10 | 2 | 26 | 0 |
| 11 | 0(NTSC) 2.3(PAL) | 27 | 2.5 |
| 12 | 3.15 | 28 | 2.1 |
| 13 | 3.1 | 29 | 1.23 |
| 14 | 0(NTSC) 2.3(PAL) | 30 | 2.5 |
| 15 | H:4 over L:0.5 under | 31 | 2.2 |
| 16 | H:4 over L:0.5 under | 32 | 2.3 |

IC702 (CXA1645M)

| 10702 (OXA1043W) | | | | | | | |
|------------------|----------------|------------|----------------------|--|--|--|--|
| Pin No. | Voltage (V) | Pin No. | Voltage (V) | | | | |
| 1 | 0* | 13 | 2 | | | | |
| 2 | 2 | 14 | 4 | | | | |
| 3 | (Black level | 15 | 2.2 | | | | |
| 4 | at CLAMP) | 16 | 1.3 (Black level) | | | | |
| 5 | _ | 17 | 1.6 (Black level) | | | | |
| 6 | _ | 18 | 2 | | | | |
| 7 | 1.7 | 19 | 5* | | | | |
| 8 | H:3.6 L:3.2 | 20 | 1.2 (Black level) | | | | |
| 9 | 2.5 | 21 | 17 | | | | |
| 10 | 2.2 | 22 | 1.7 (Black level) | | | | |
| 11 | _ | 23 | (Black icvel) | | | | |
| 12 | 5∗ | 24 | 0* | | | | |

* : External apply voltage.

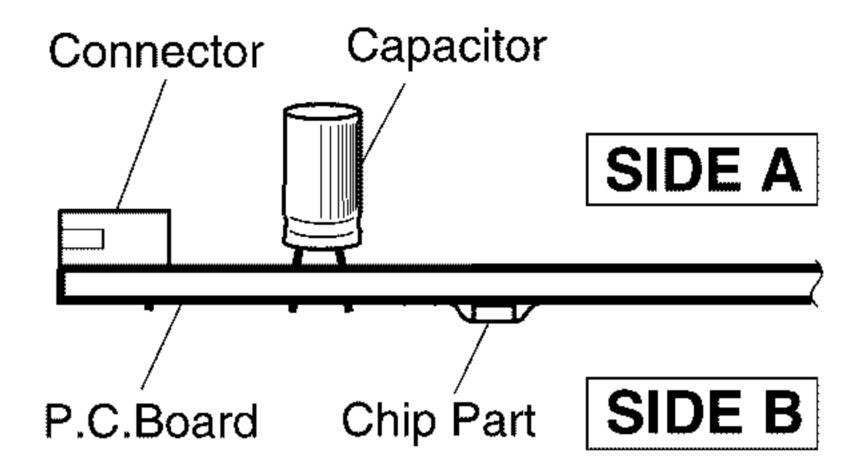
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS:

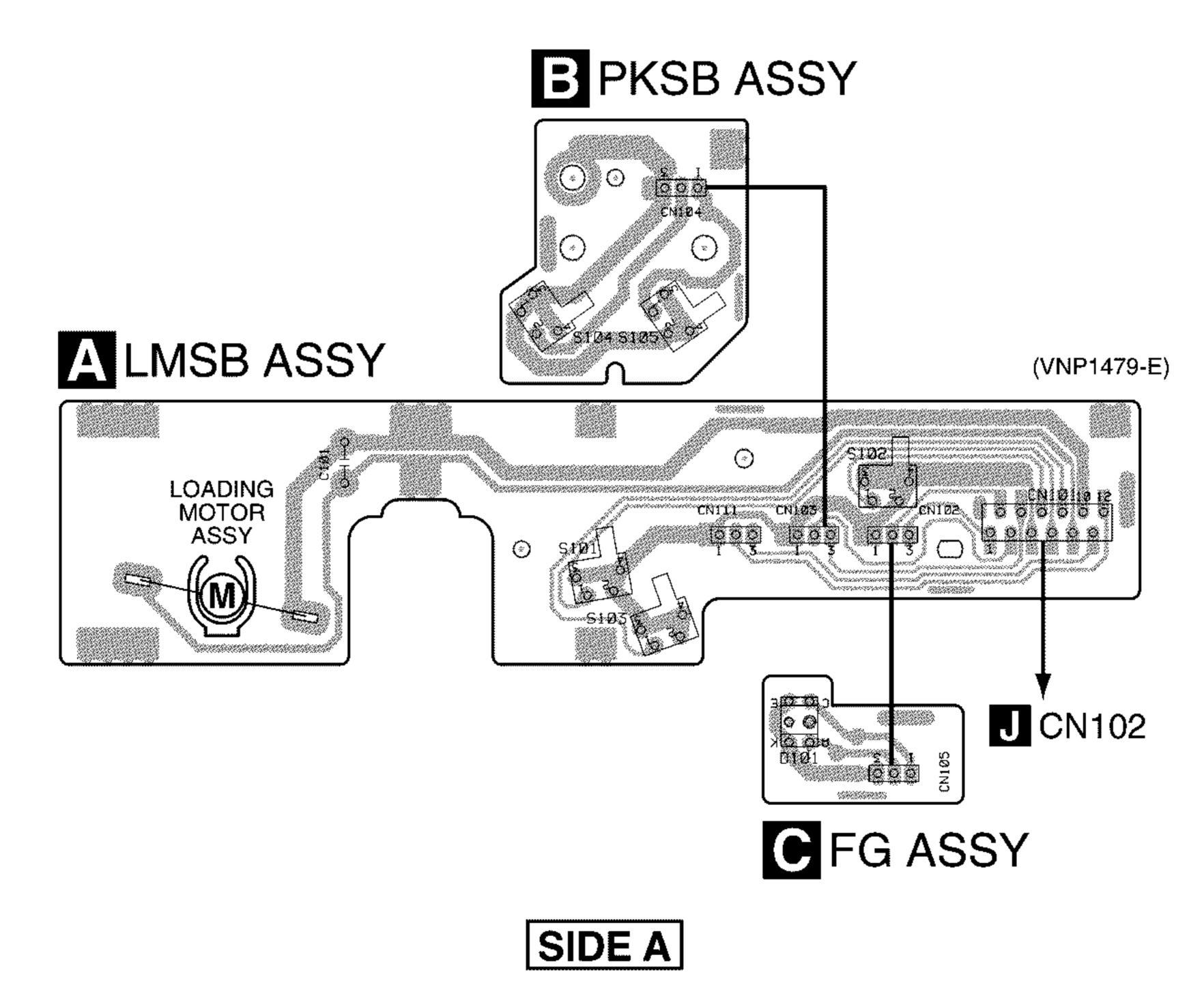
- Part numbers in PCB diagrams match those in the schematic diagrams.
- 2. A comparison between the main parts of PCB and schematic diagrams is shown below.

| Symbol In PCB Diagrams | Symbol In Schematic Diagrams | Part Name |
|---------------------------|---------------------------------|-----------------------------|
| <u>000</u> BCE | | Transistor |
| ●○○○ B C E | | Transistor with resistor |
| OOO D G S | | Field effect transistor |
| <u>©00</u> | *** | Resistor array |
| 000 | | 3-terminal regulator |

- The parts mounted on this PCB include all necessary parts for several destinations.
 - For further information for respective destinations, be sure to check with the schematic diagram.
- 4. View point of PCB diagrams.



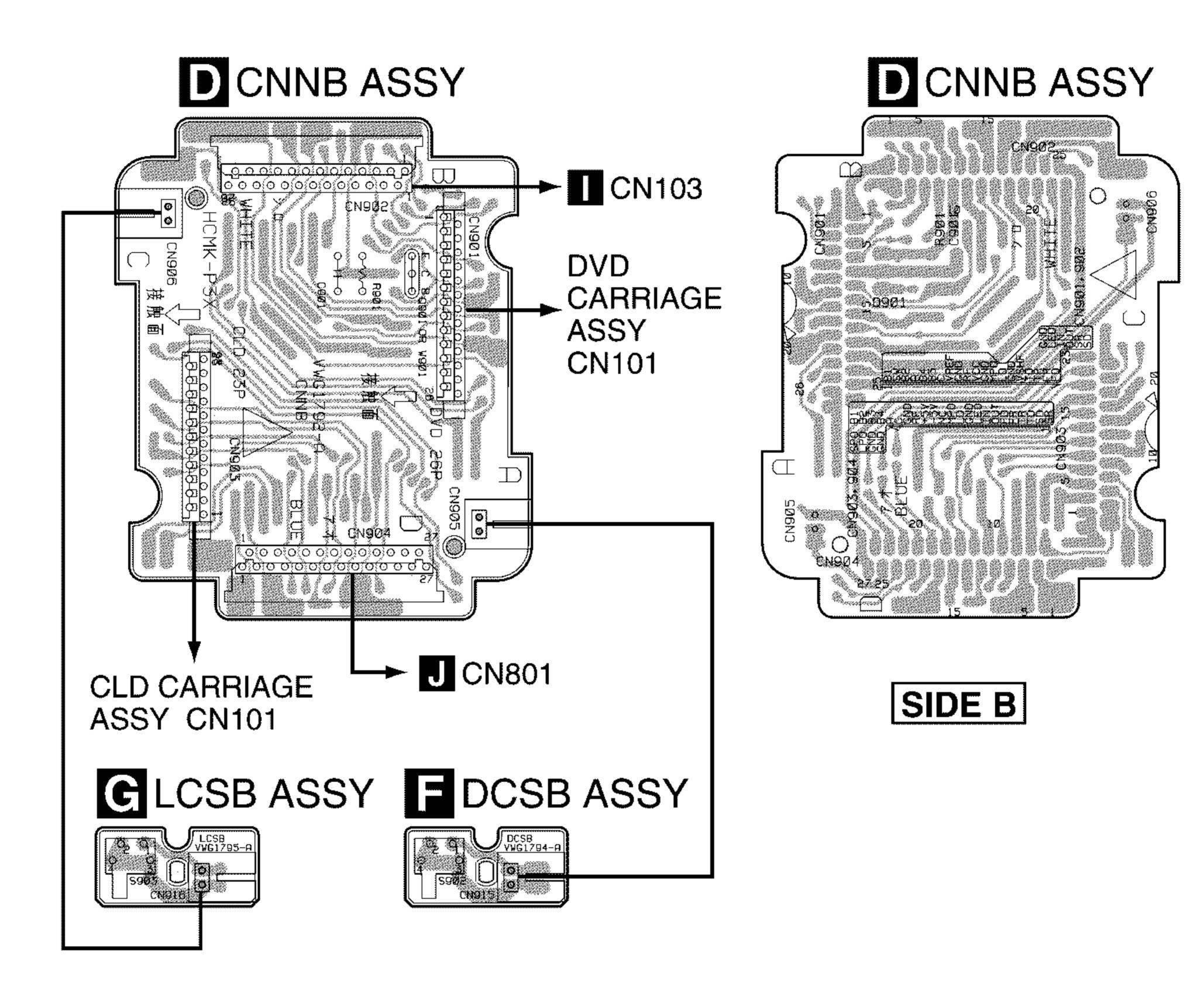
4.1 LMSB, PKSB AND FG ASSEMBLIES

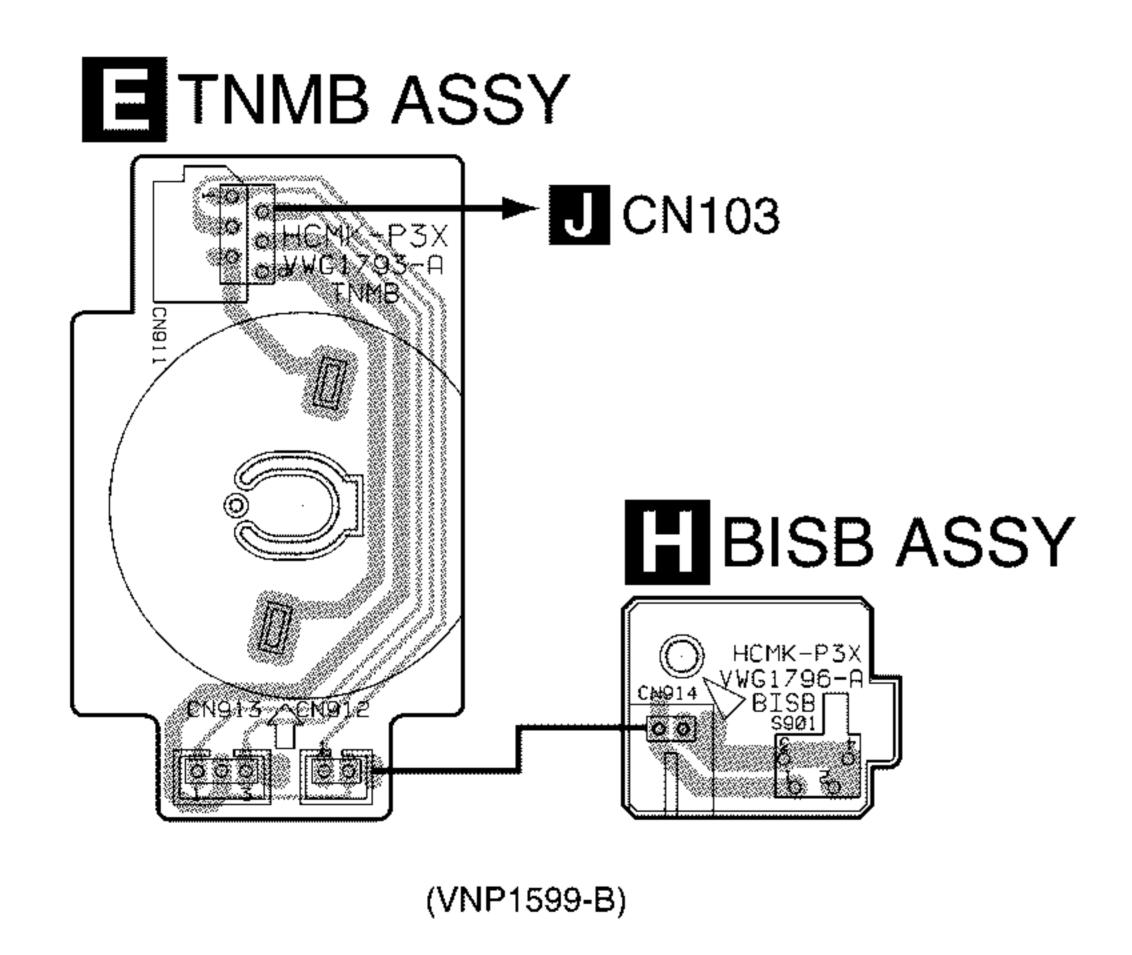




■ 3 **■** 4

4.2 CNNB, TNMB, DCSB, LCSB AND BISB ASSEMBLIES



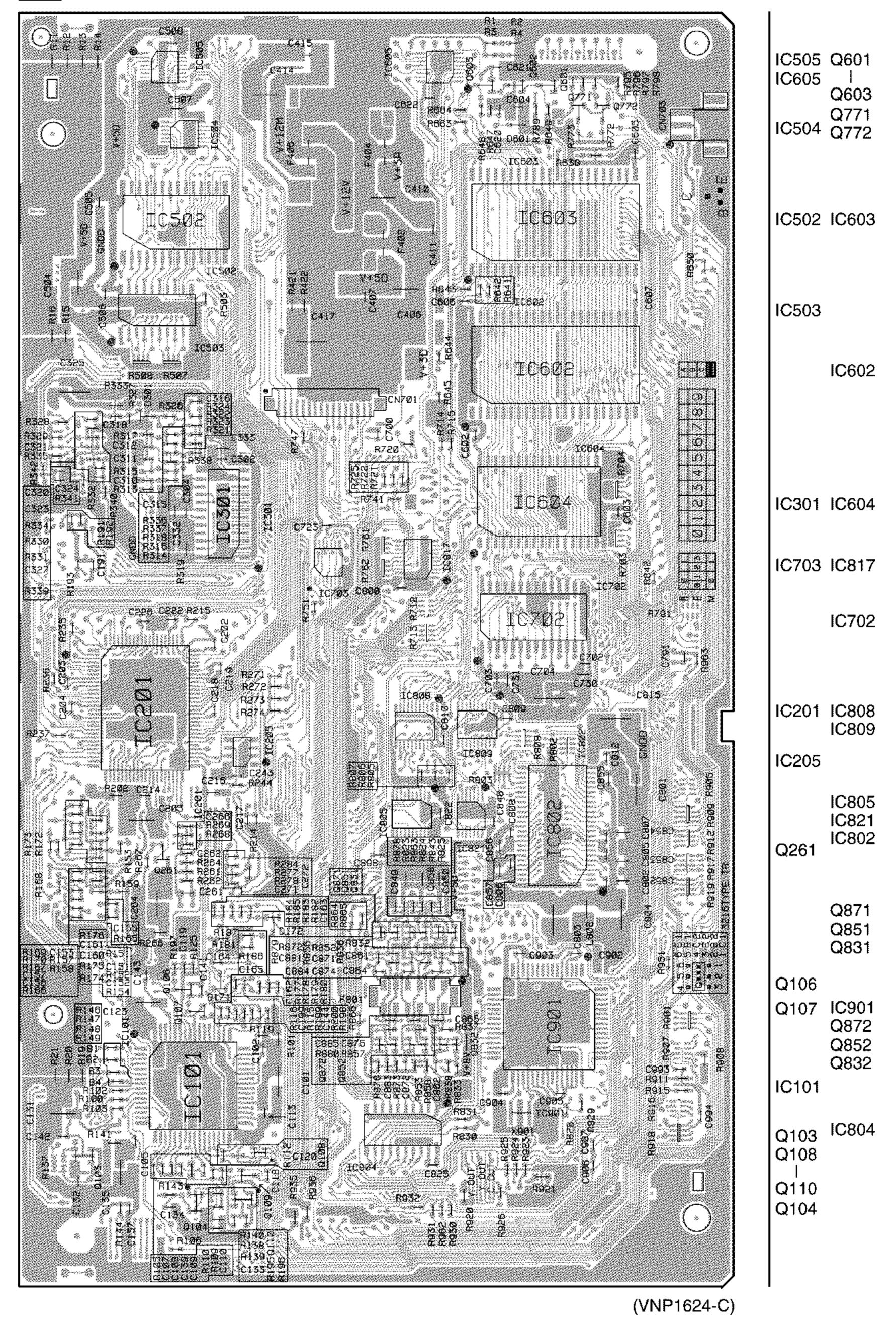


SIDE A

DEEEGGG 4

D

DVDM ASSY



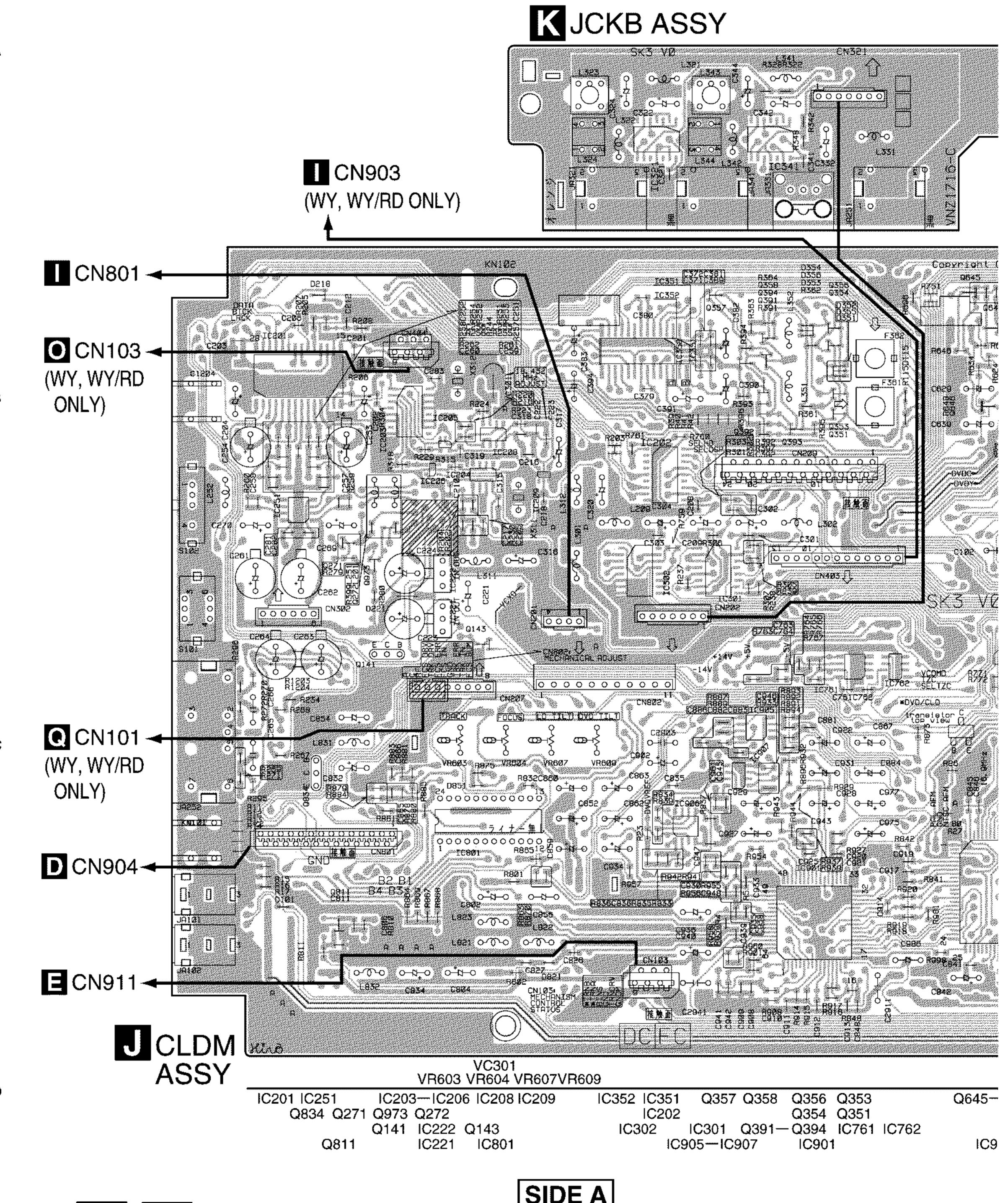
SIDE B

49

D

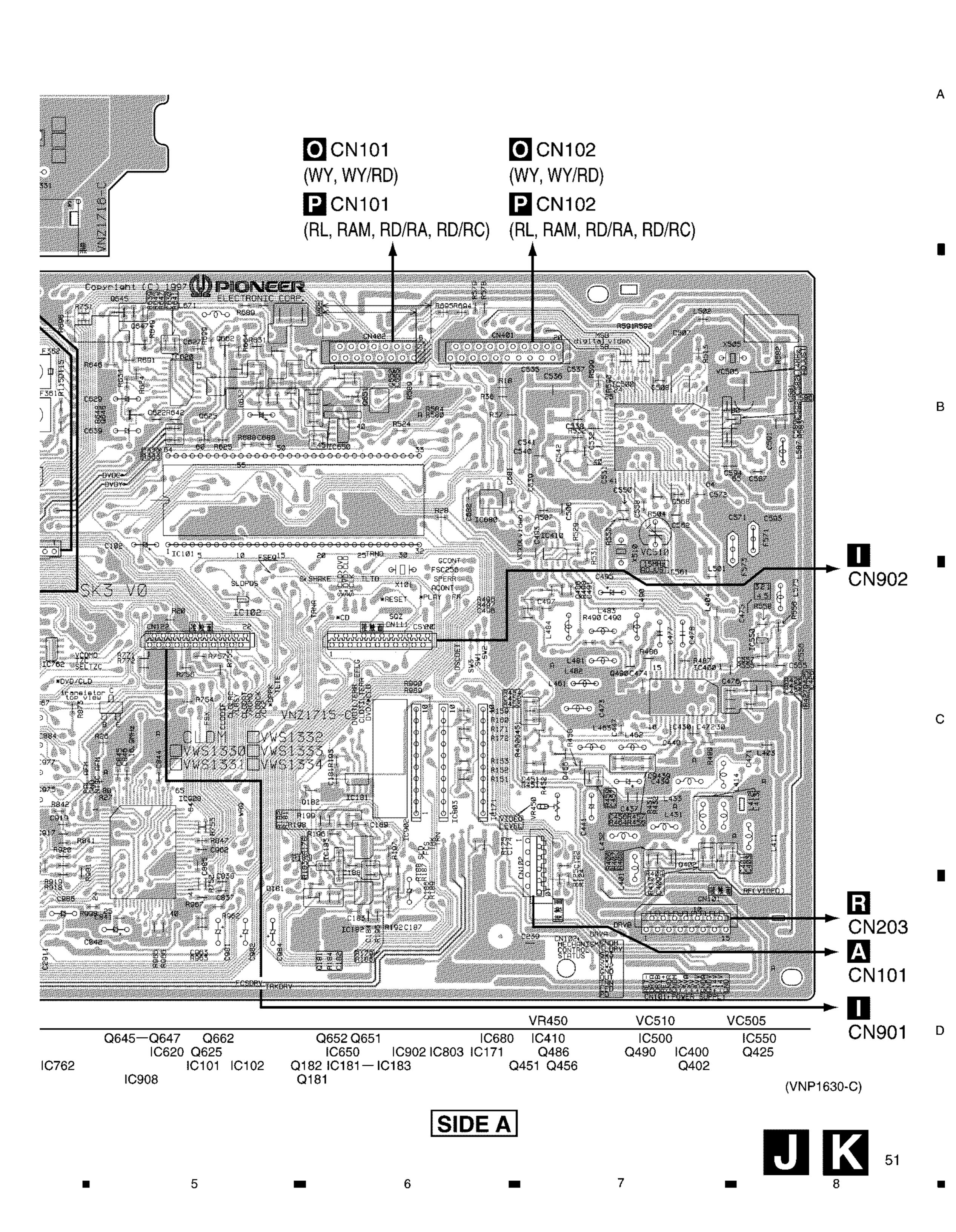
■ 2 ■

4.4 CLDM AND JCKB ASSEMBLIES

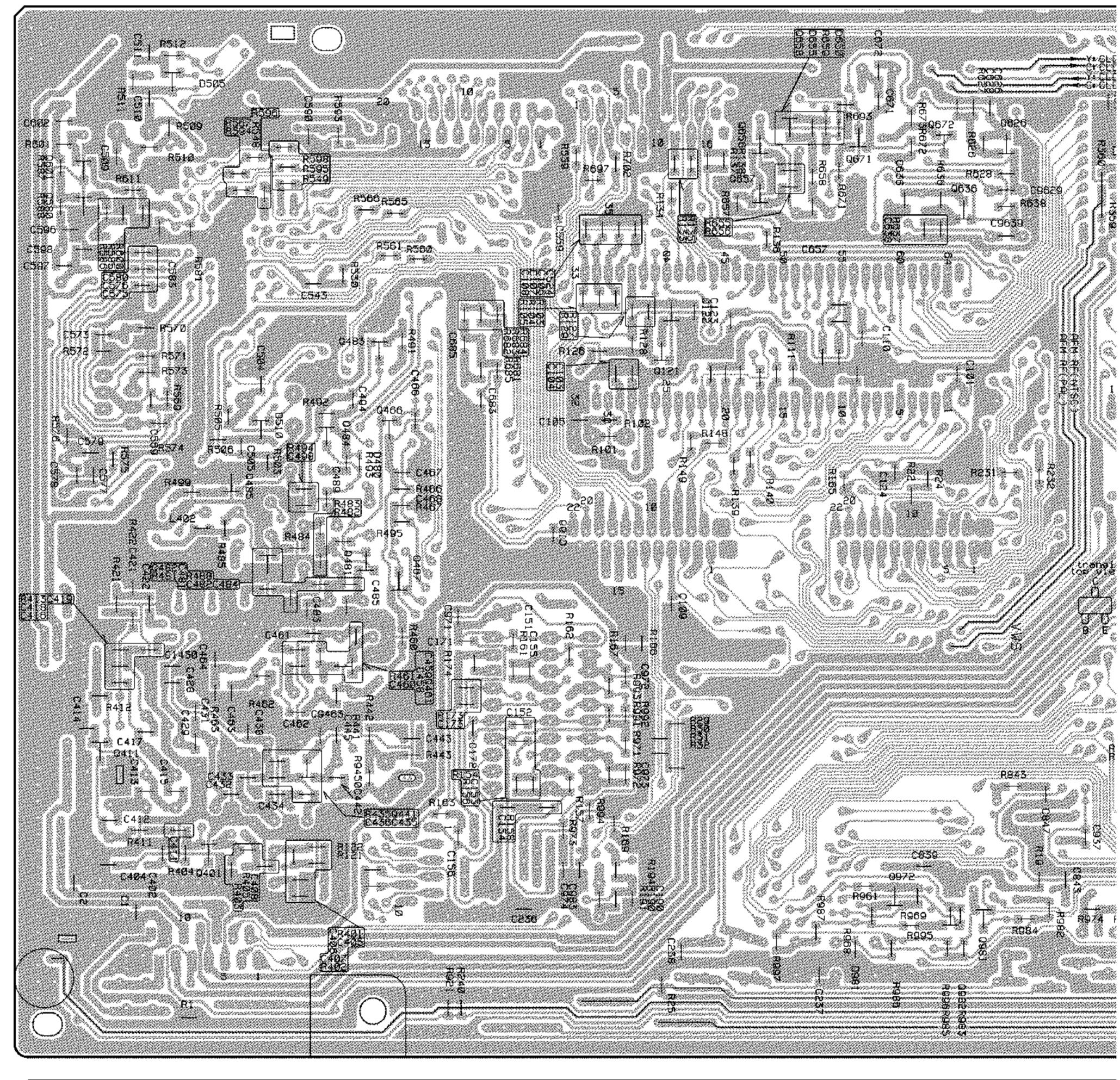


50 **(**

SIDE A



J CLDM ASSY



Q601 Q580 Q411 Q484 Q483 Q485 Q481 Q466 Q461 Q467 Q482 Q401 Q441

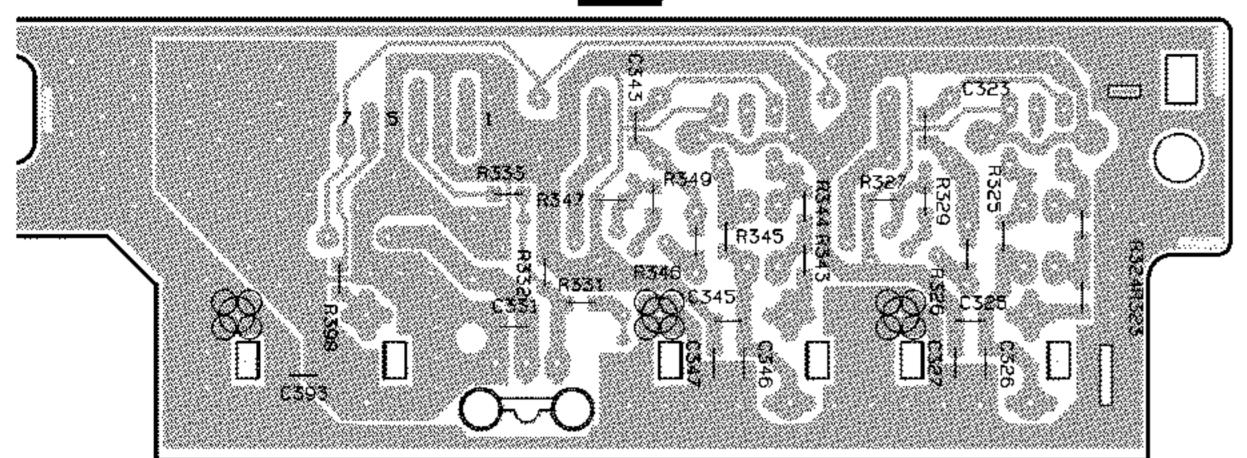
Q122 Q656 — Q658 Q121 Q672 Q626 Q671 Q636 Q972 Q982 Q981

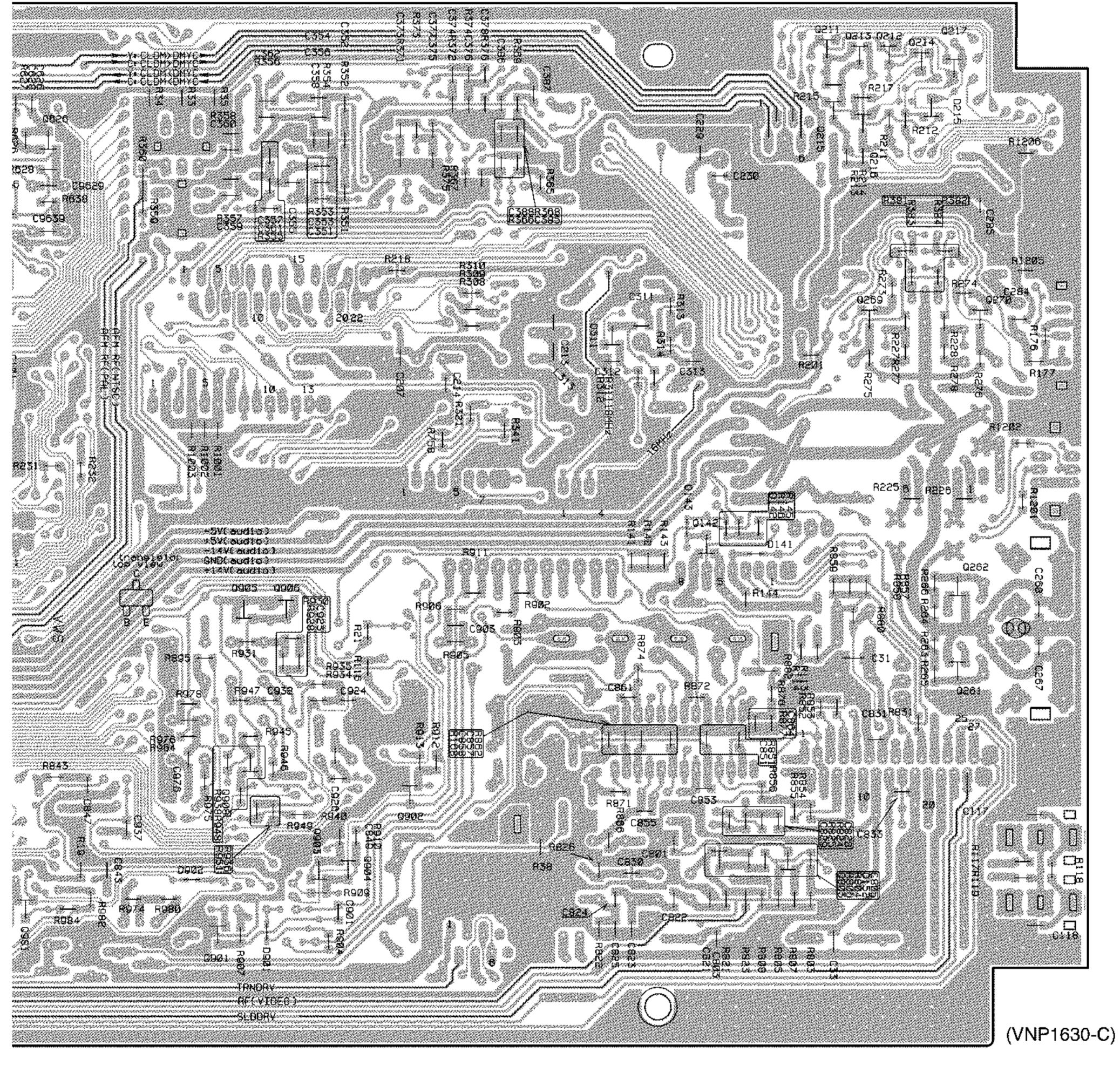
SIDE B



DVL-909

JCKB ASSY





Q626 Q908 Q142 Q211—Q217 636 Q901—Q906 Q803 Q152 Q269 Q270 Q262 Q261

SIDE B

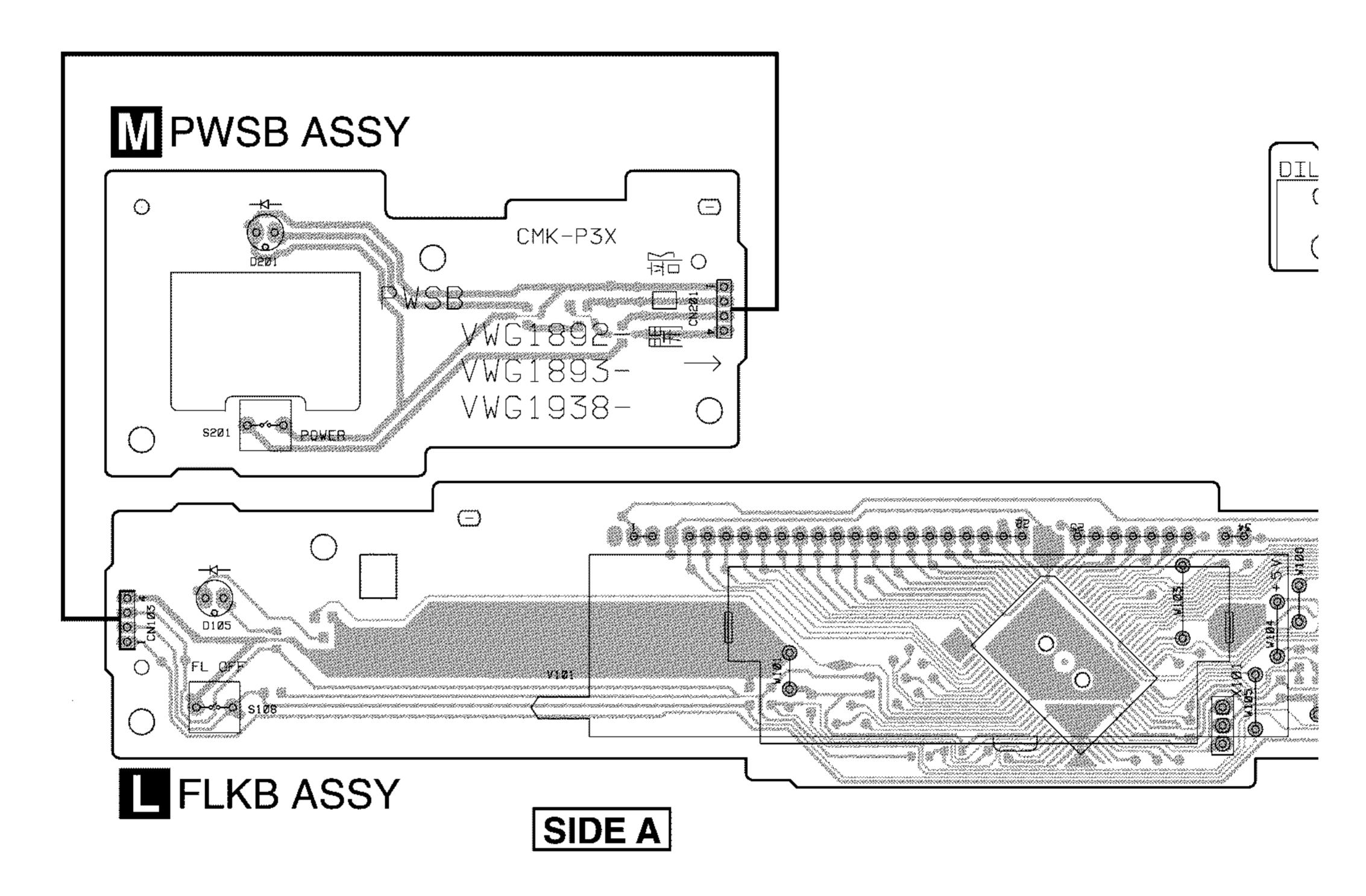
JK

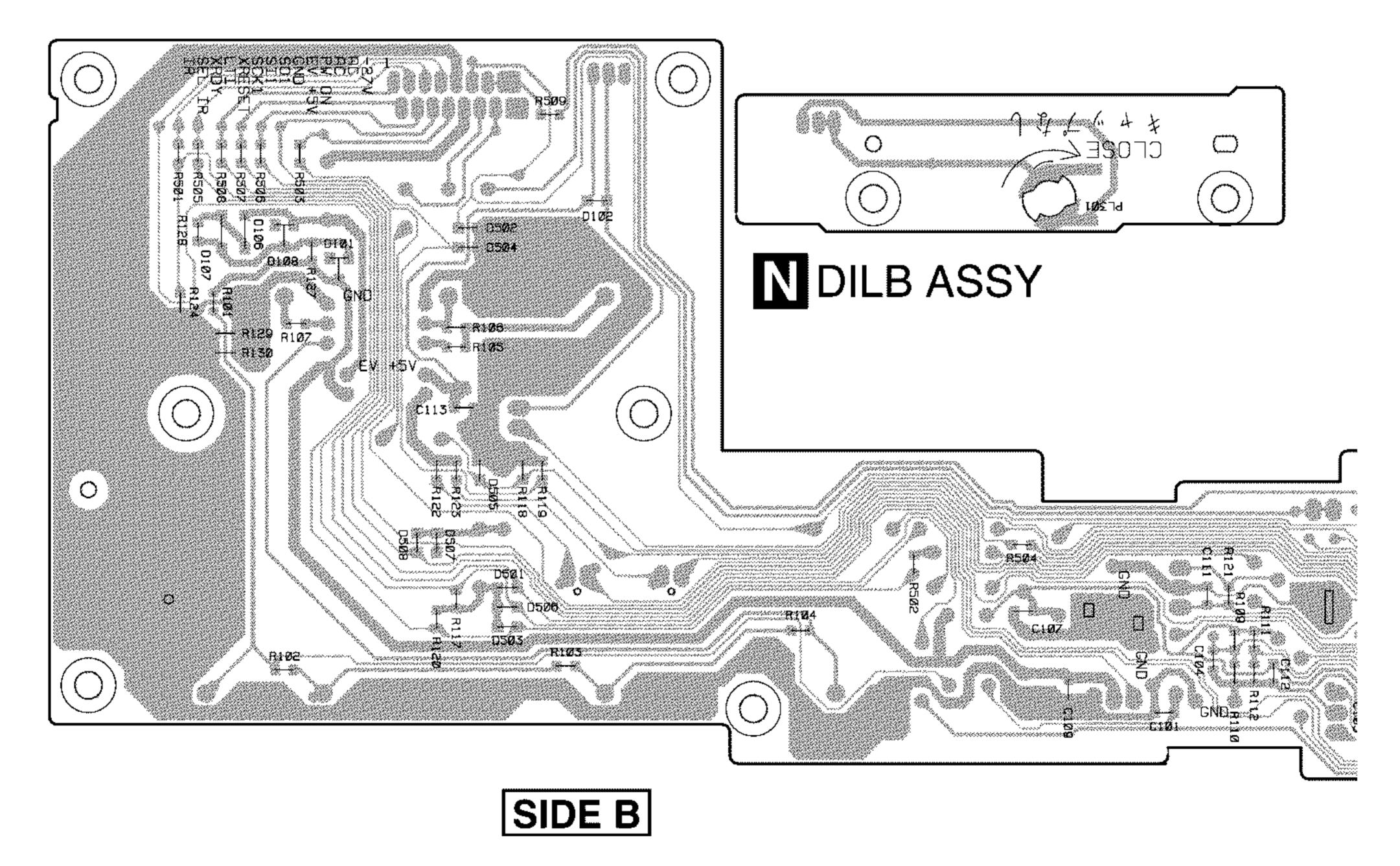
53

D

5

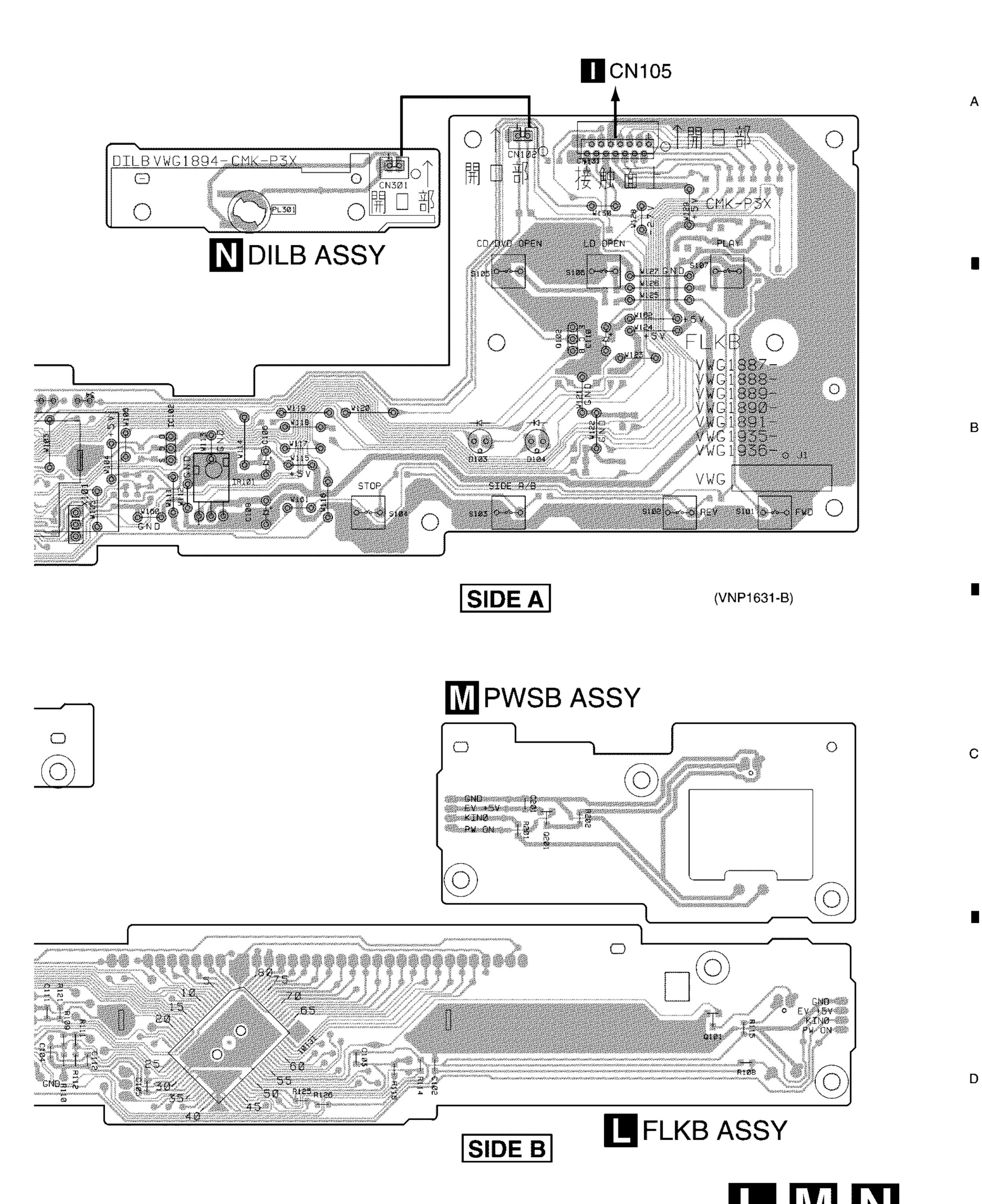
4.5 FLKB, PWSB AND DILB ASSEMBLIES





54 L M N

■ 3 **■** 4



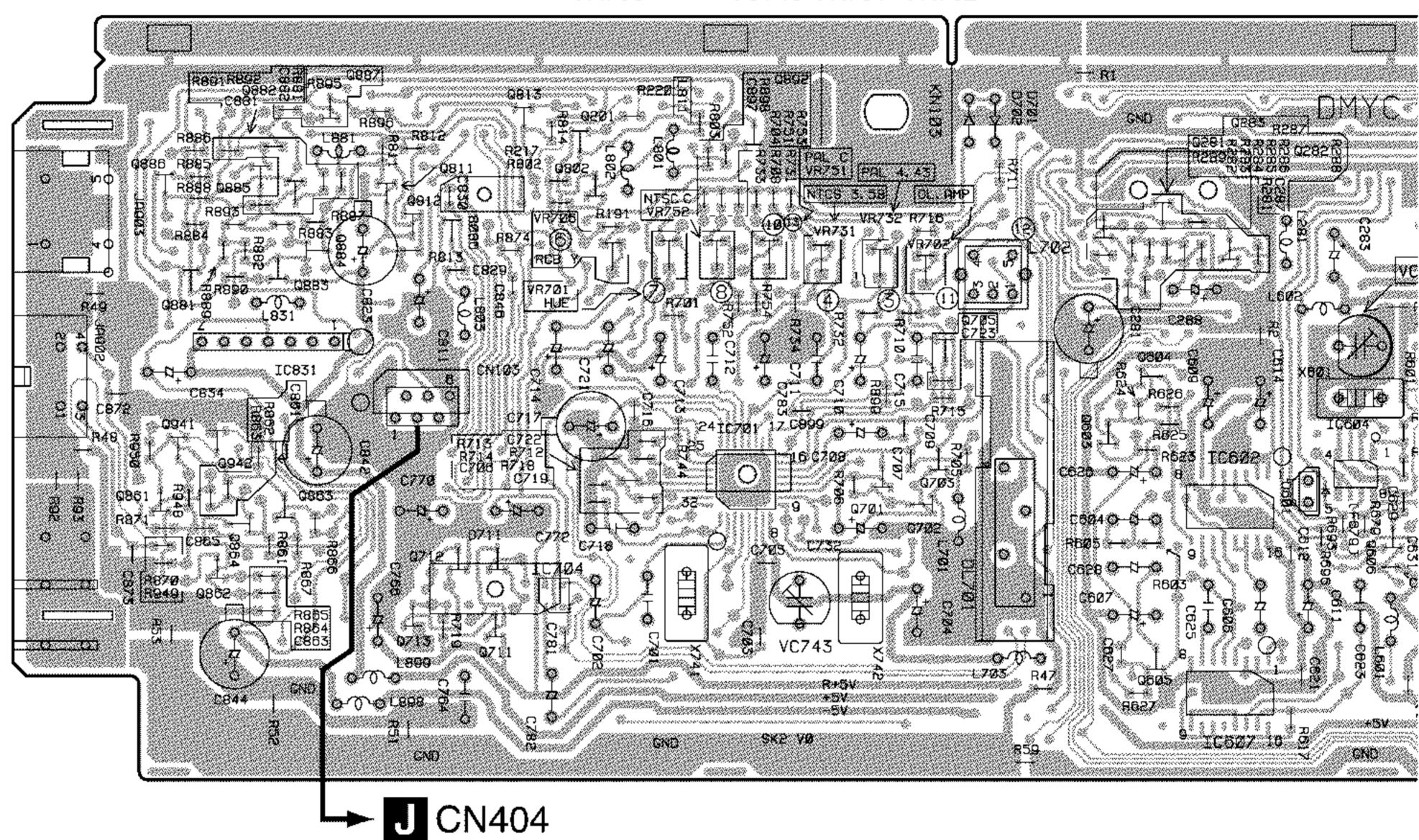
4.6 DMYC ASSY (WY AND WY/RD TYPES ONLY)

Q886 Q885 Q882 Q887 Q811 Q813 Q201 Q892 Q281 - Q283 Q603 Q604 Q881 Q883 Q884 Q812 Q808 IC604 Q941 Q942 IC831 Q705 IC602 Q711 - Q713 IC704 IC701 Q701 - Q703 IC607 Q861 – Q864 Q605 Q606

> VR701 VR752 VR751 VR732 VR706

VC743 VR731 VR702

• DMYC ASSY



SIDE A

Q203 Q102 Q103

IC103 Q202 IC301 Q241 Q232 Q264 Q263 Q351 Q261 Q301 Q302 Q265

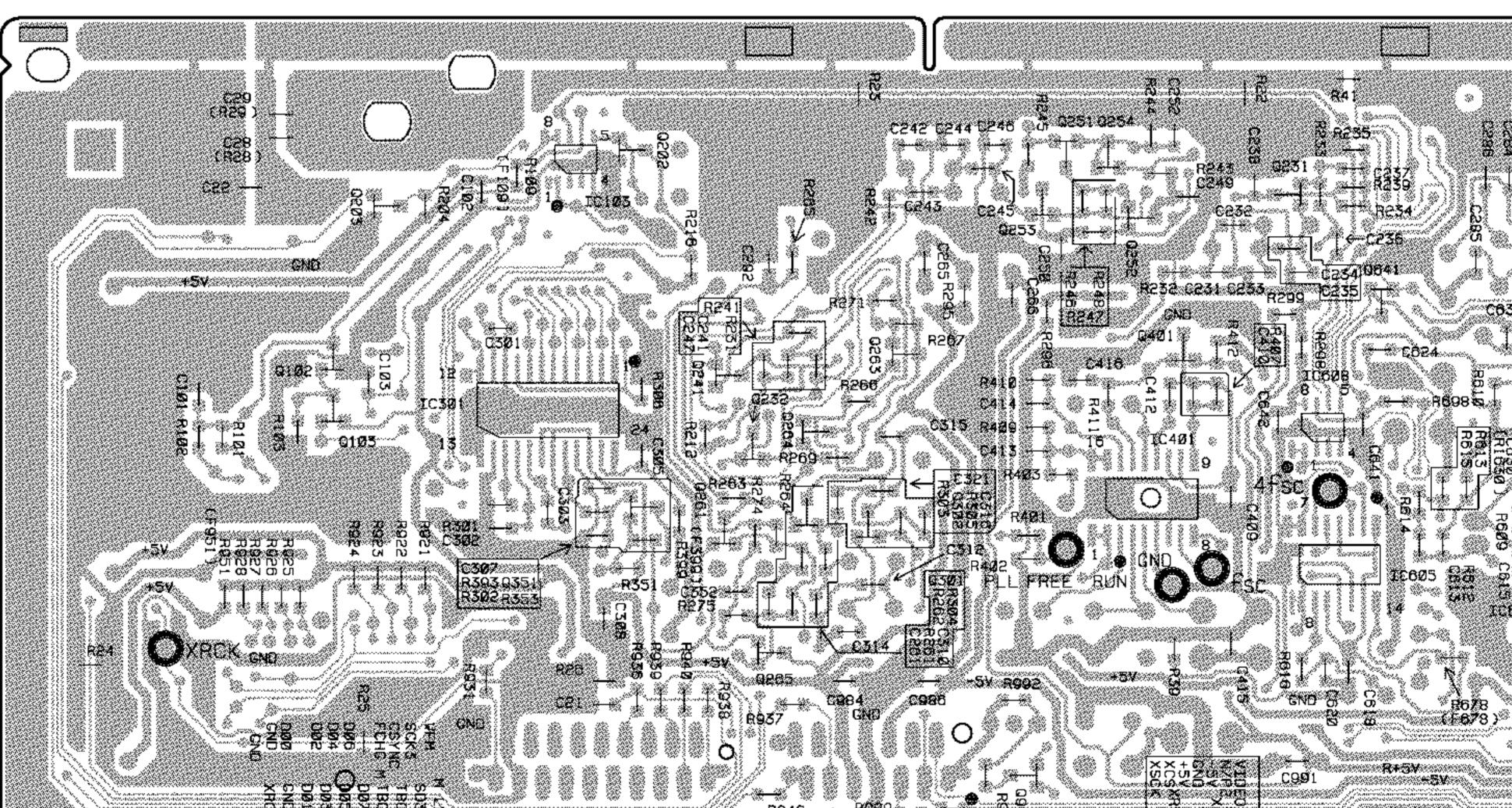
Q251 - Q254 IC401 Q401

Q992

Q231 Q641 IC608 IC605

VC651

O DMYC ASSY



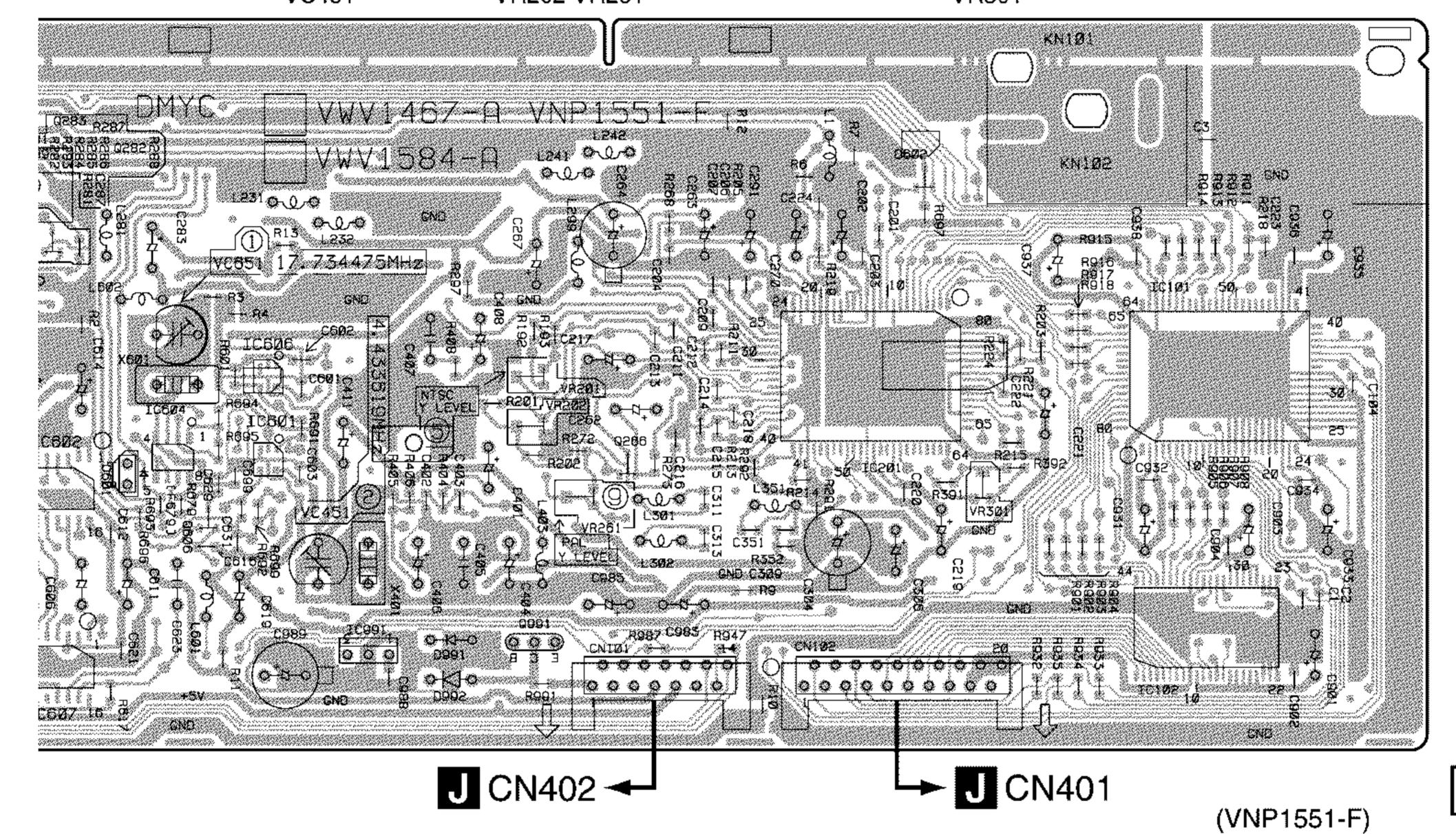
SIDE B

(WY AND WY/RD TYPES ONLY)

Α

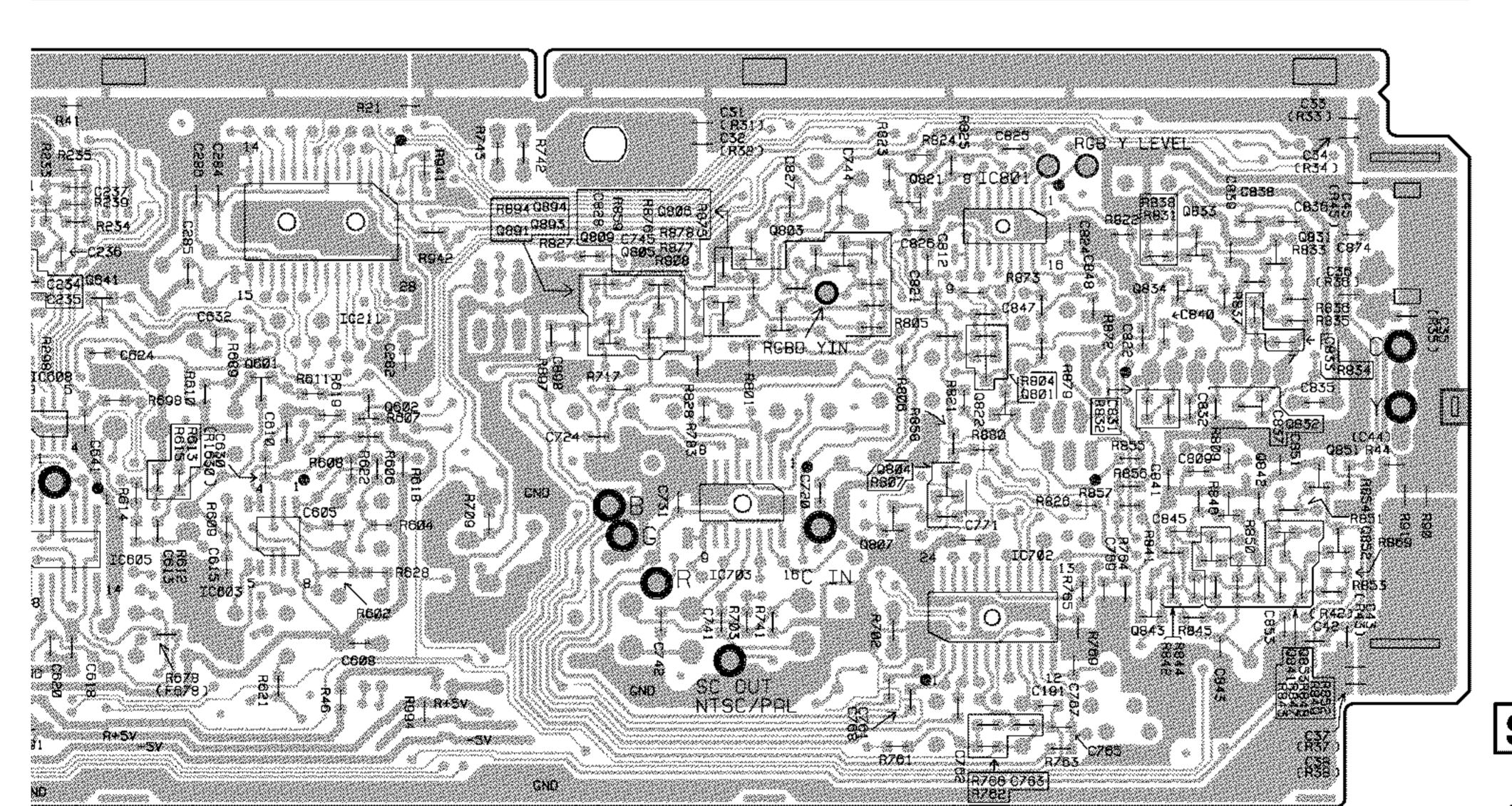
:83 IC604 IC606 2602 IC601 Q266 IC201 IC101 2607 IC102 Q606 IC991 Q991

VC651 VR201 VC451 VR202 VR261 VR301



SIDE A

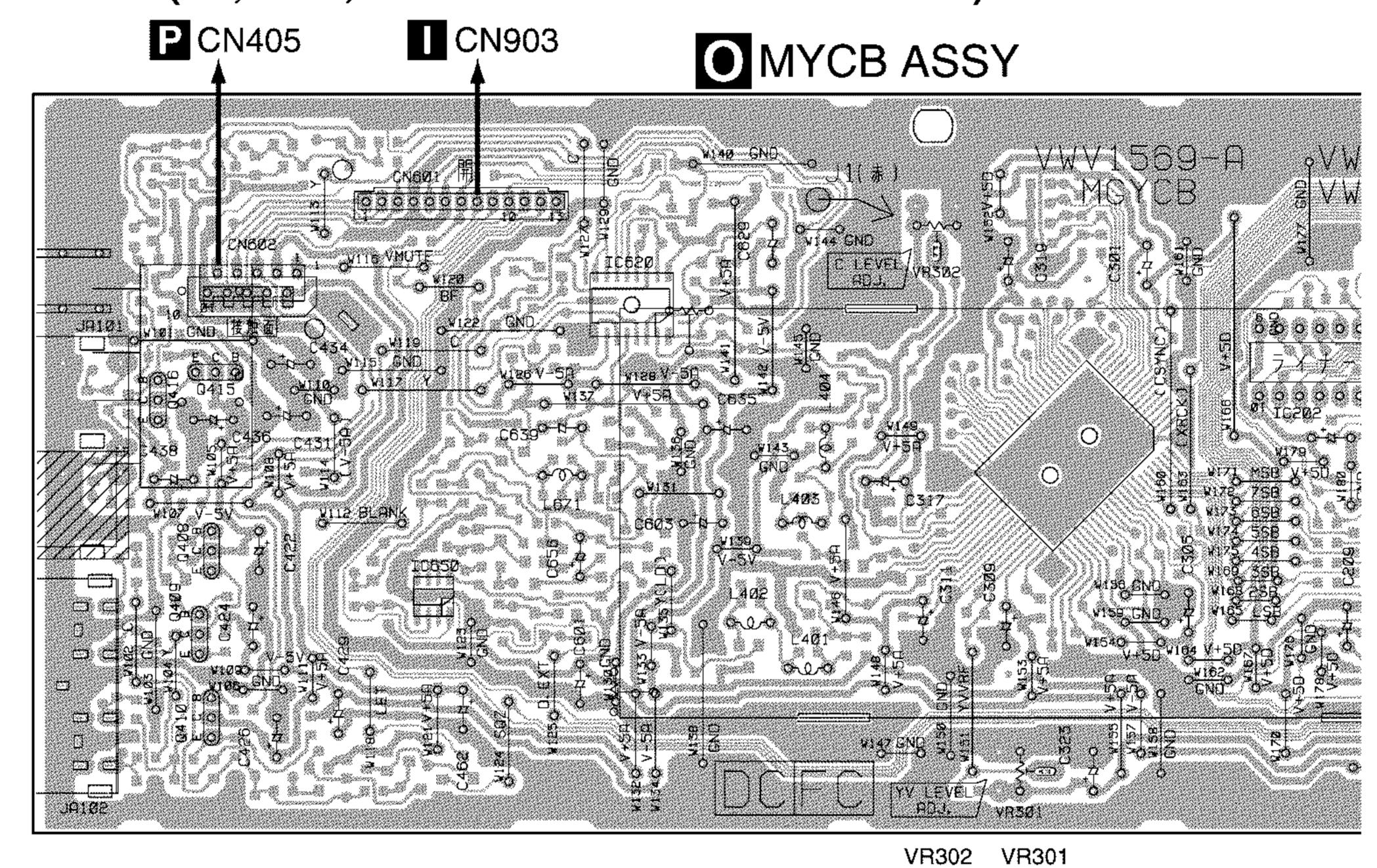
31 Q641 Q834 Q833 Q831 IC211 Q806 Q821 Q894 Q803 IC801 Q602 Q891 Q893 Q809 Q805 Q804 Q801 Q822 C608 Q832 Q851 Q601 Q841 Q842 Q853 Q852 IC603 IC703 IC702 IC605 Q807 Q843



SIDE B

(WY AND WY/RD TYPES ONLY)

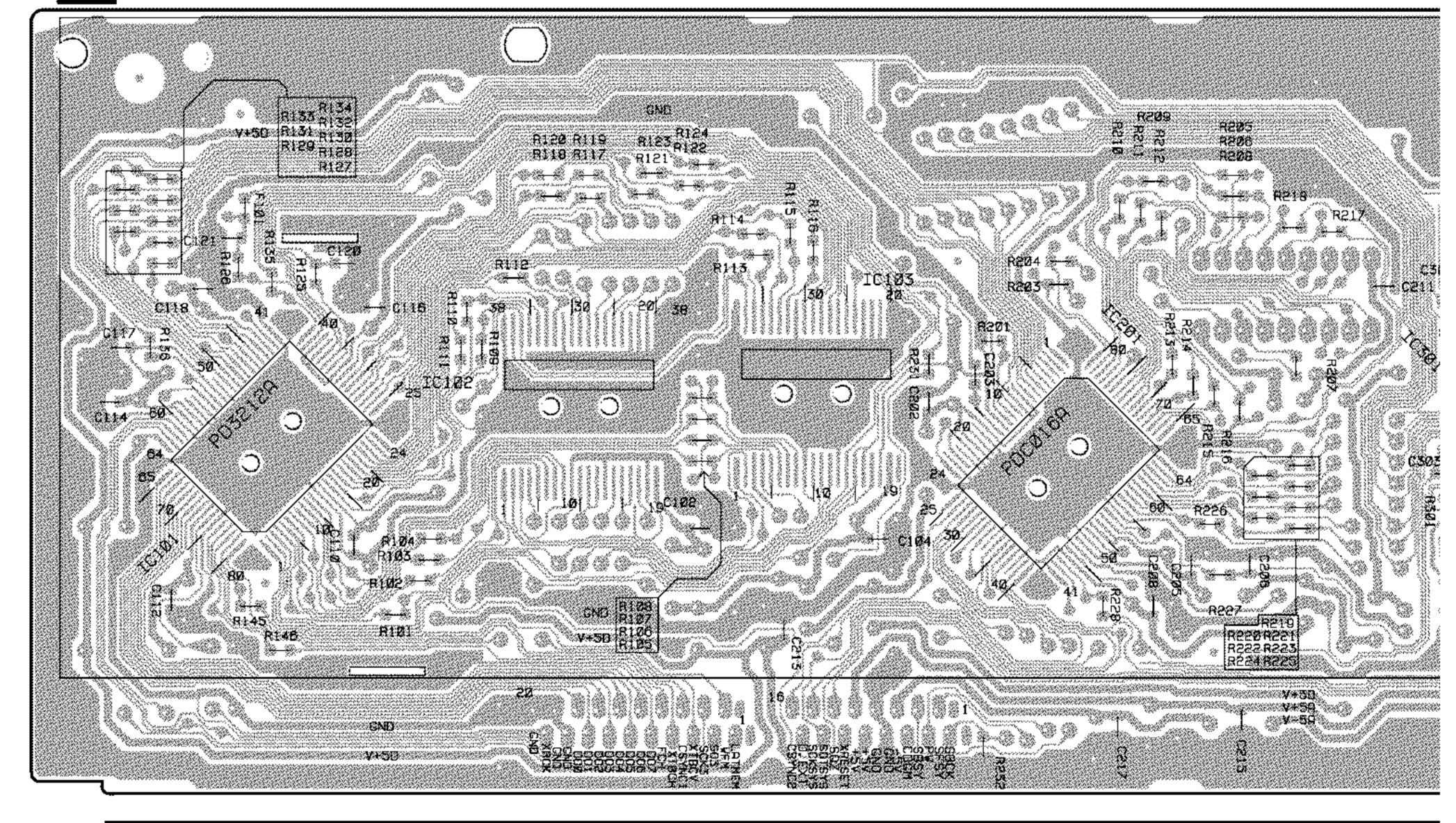
4.7 MYCB ASSY (RL, RAM, RD/RA AND RD/RC TYPES ONLY)



Q416 Q415 Q408 — Q410

SIDE A

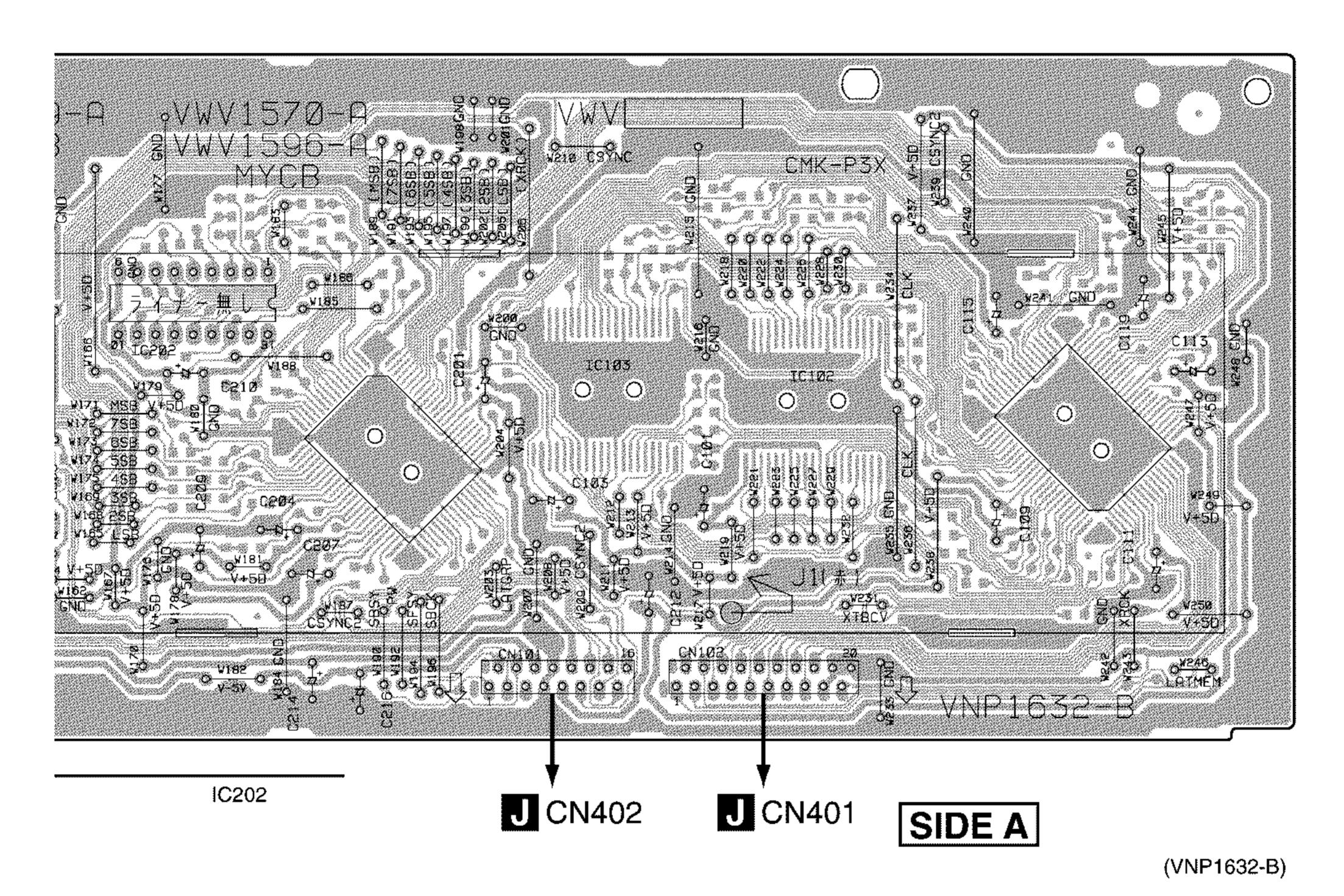
MYCB ASSY



IC101 IC103 IC102 IC201

SIDE B

(RL, RAM, RD/RA AND RD/RC TYPES ONLY)



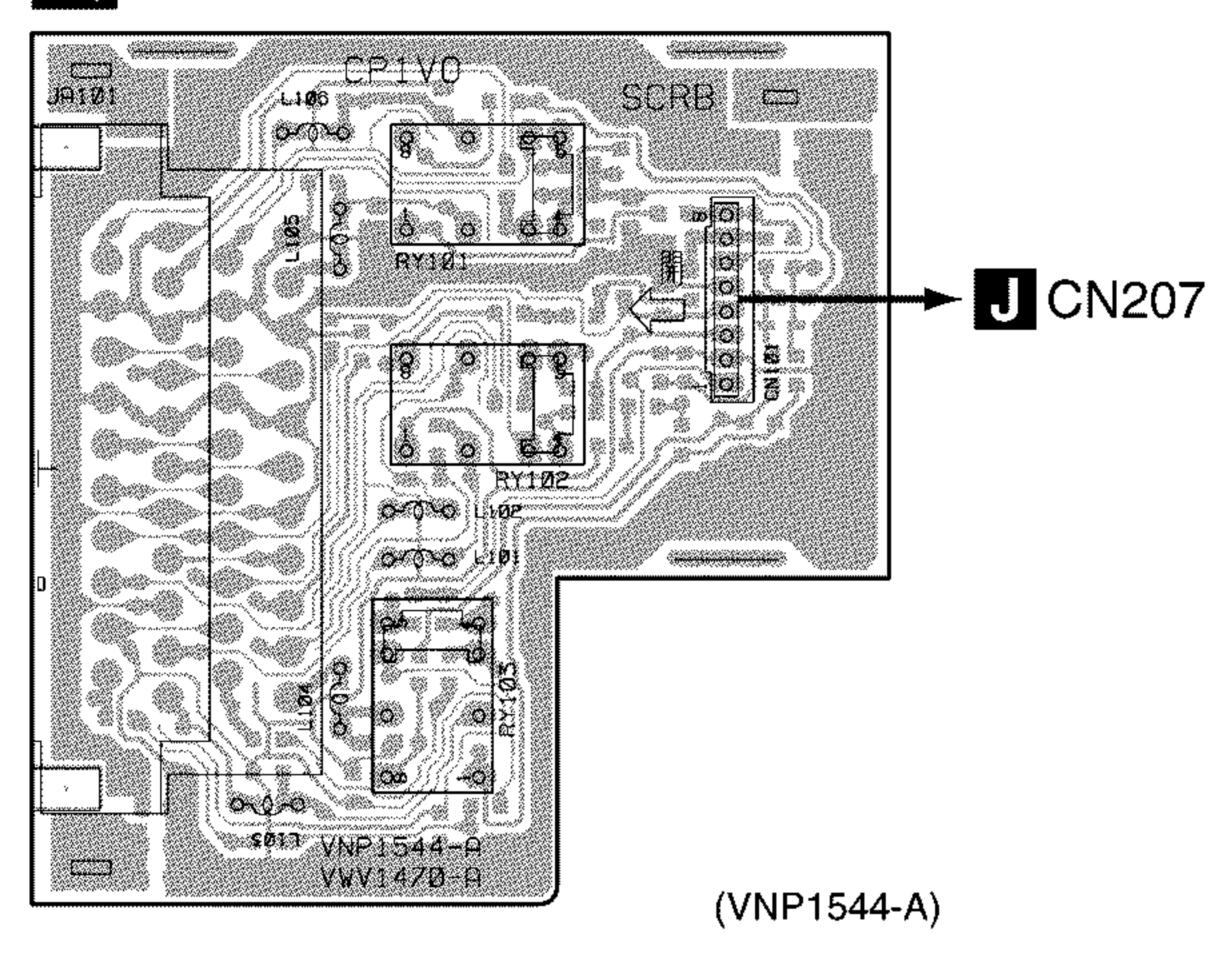
Q412 Q414 Q407 IC301 Q625 Q681 IC620 Q645-Q647 Q411 Q413 Q636 Q662 IO Q671 Q656 Q658 Q672 Q652 Q657 Q655 Q651 Q Q662 IC650 Q661 Q626 Q401 — Q404

(RL, RAM, RD/RA AND RD/RC TYPES ONLY)

Q417 — Q420

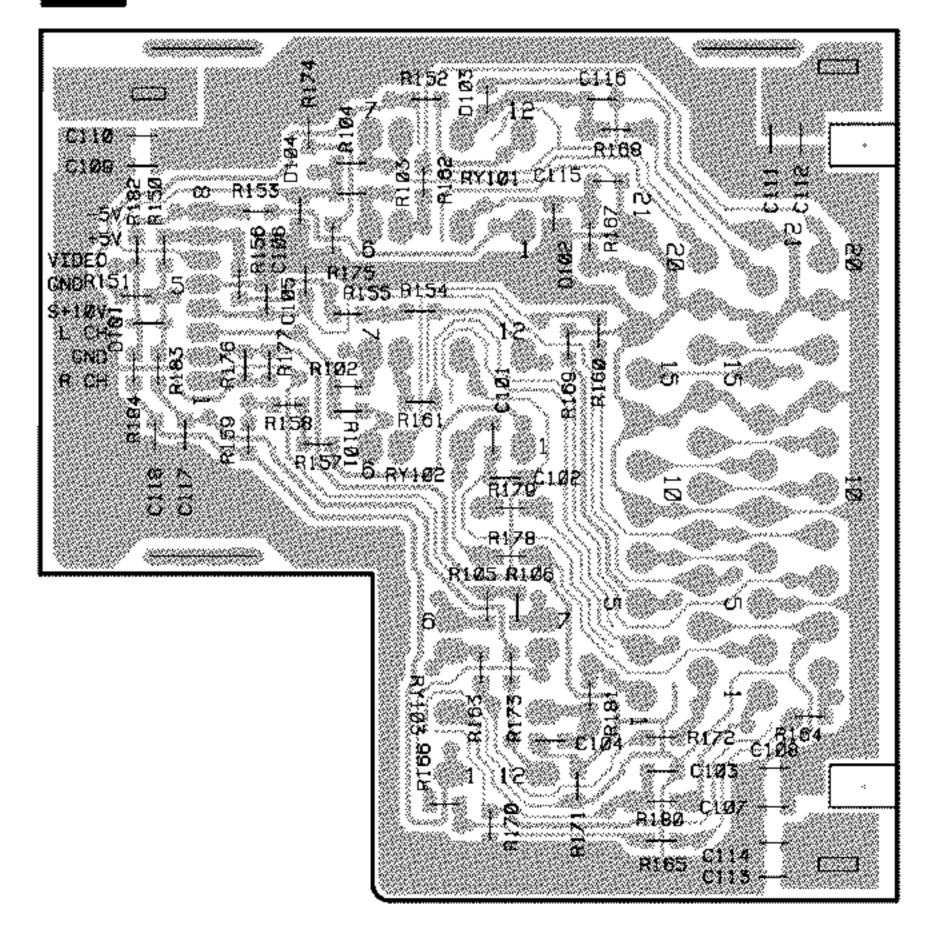
SIDE B

O SCRB ASSY



SIDE A

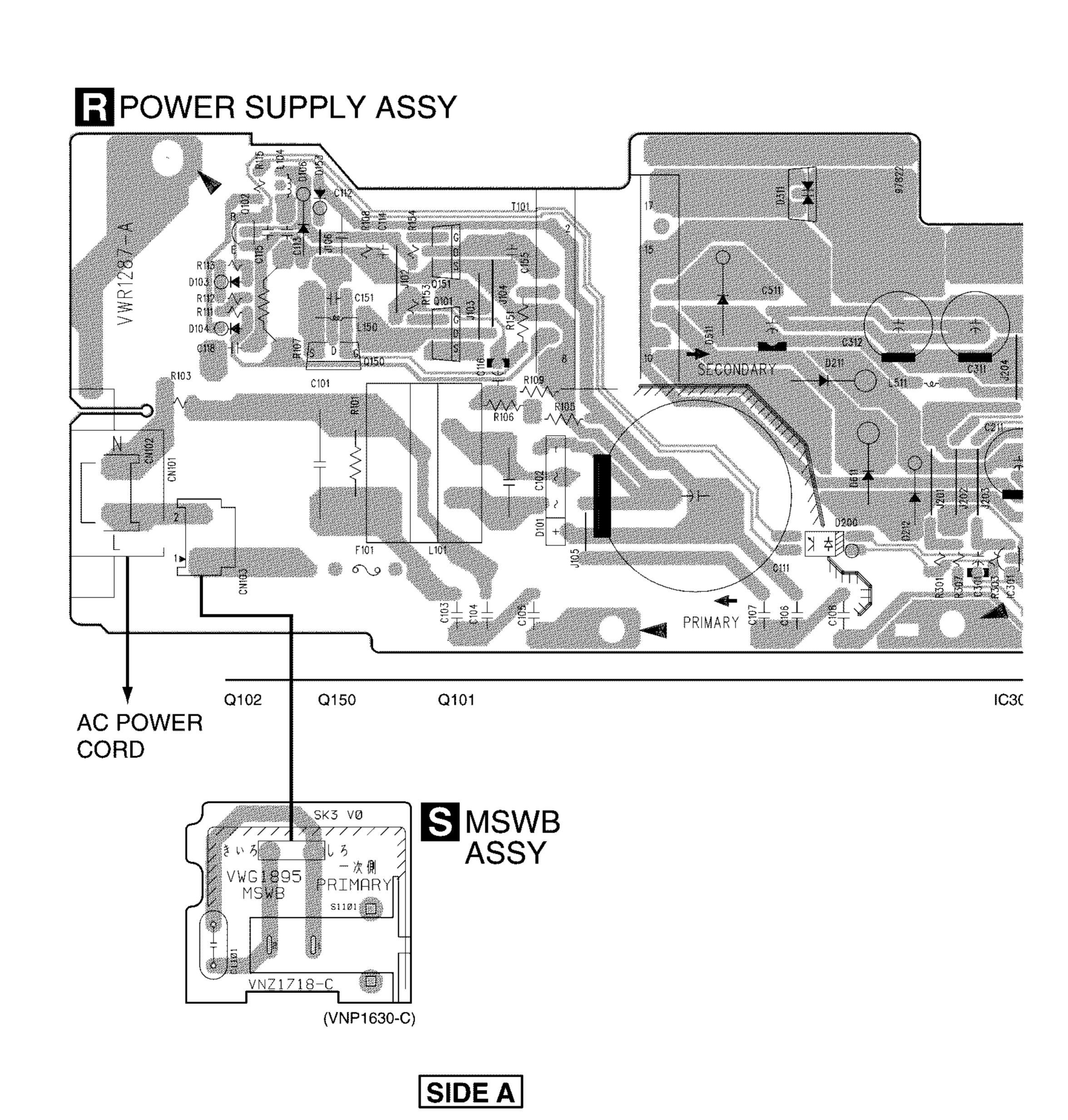
SCRB ASSY



SIDE B

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4.9 POWER SUPPLY AND MSWB ASSEMBLIES



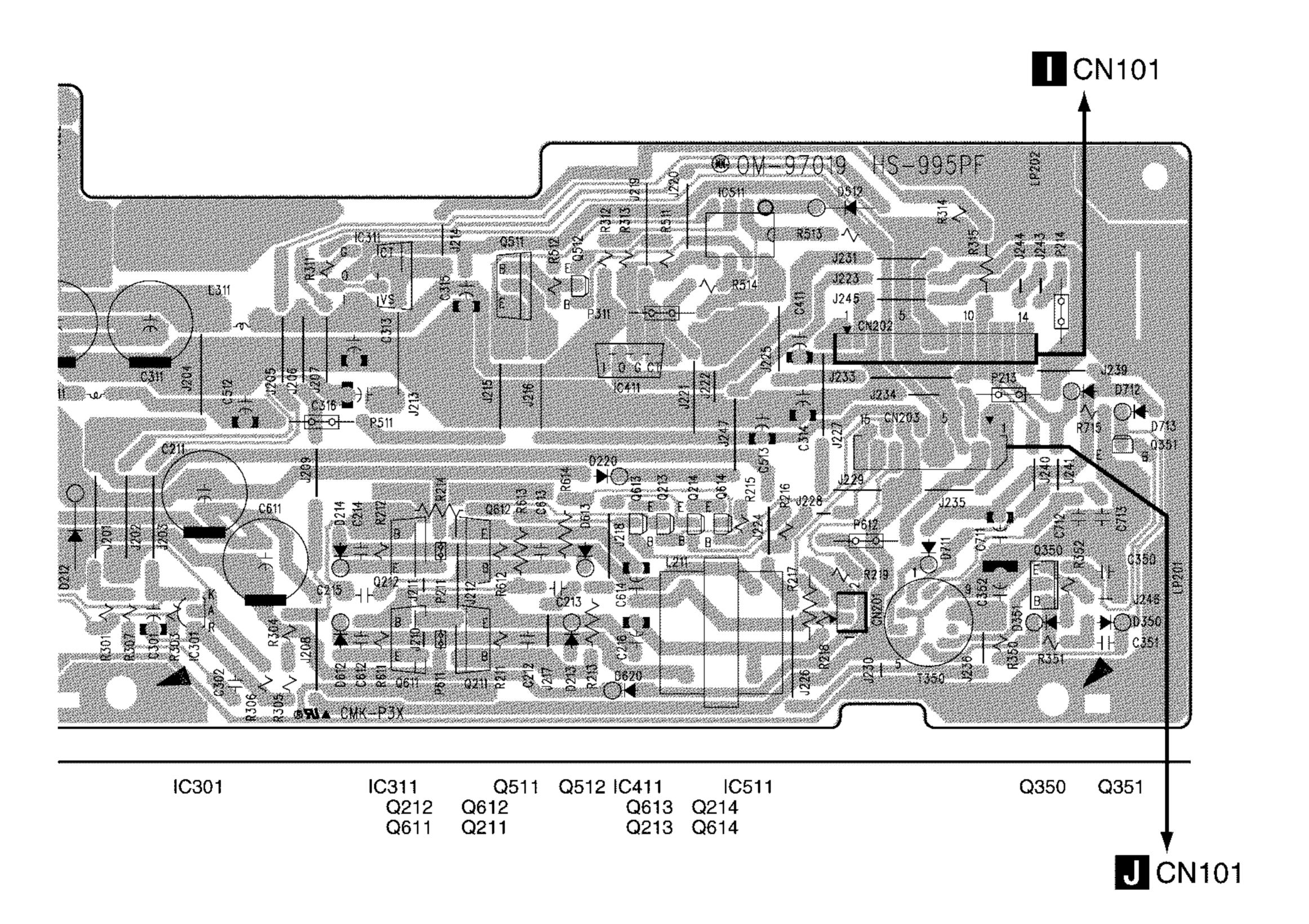
62 **B**

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DVL-909

Α

В



5

SIDE A

D

5. PCB PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples. Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

 $560 \rightarrow 56 \times 10^{1} \rightarrow 561 - RD1/4PU561J$ $47k \rightarrow 47 \times 10^{3} \rightarrow 473 - RD1/4PU473J$ $0.5 \rightarrow R50 - RN2HR50K$ $1 \rightarrow 1R0 - RS1P1R0K$

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

 $5.62k \rightarrow 562 \times 10^{1} \rightarrow 5621 \dots RN1/4PC[5]6[2]IF$

■ LIST OF WHOLE PCB ASSEMBLIES

| Rande | Cymphal and Dagarintian | Part No. | | | | | | | |
|------------|-------------------------|----------|----------|----------|----------|----------|----------|---------|--|
| Mark | Symbol and Description | WY | WY/RD | RD/RA | RD/RC | RAM | RL | Remarks | |
| NSP | MACB ASSY | VWM1507 | VWM1507 | VWM1507 | VWM1507 | VWM1507 | VWM1507 | | |
| NSP | LMSB ASSY | VWG1554 | VWG1554 | VWG1554 | VWG1554 | VWG1554 | VWG1554 | | |
| NSP | - PKSB ASSY | VWG1555 | VWG1555 | VWG1555 | VWG1555 | VWG1555 | VWG1555 | | |
| NSP | └-FG ASSY | VWG1556 | VWG1556 | VWG1556 | VWG1556 | VWG1556 | VWG1556 | | |
| NSP | MECHB ASSY | VWM1721 | VWM1721 | VWM1721 | VWM1721 | VWM1721 | VWM1721 | | |
| NSP | -CNNB ASSY | VWG1792 | VWG1792 | VWG1792 | VWG1792 | VWG1792 | VWG1792 | | |
| NSP | TNMB ASSY | VWG1793 | VWG1793 | VWG1793 | VWG1793 | VWG1793 | VWG1793 | | |
| NSP | DCSB ASSY | VWG1794 | VWG1794 | VWG1794 | VWG1794 | VWG1794 | VWG1794 | | |
| NSP | - LCSB ASSY | VWG1795 | VWG1795 | VWG1795 | VWG1795 | VWG1795 | VWG1795 | | |
| NSP | └─BISB ASSY | VWG1796 | VWG1796 | VWG1796 | VWG1796 | VWG1796 | VWG1796 | | |
| NSP | FLKY ASSY | VWM1802 | VWM1802 | VWM1823 | VWM1823 | VWM1822 | VWM1801 | | |
| | FLKB ASSY | VWG1890 | VWG1890 | VWG1936 | VWG1936 | VWG1935 | VWG1889 | *1 | |
| NSP | -PWSB ASSY | VWG1938 | VWG1938 | VWG1893 | VWG1893 | VWG1893 | VWG1893 | *2 | |
| NSP | └DILB ASSY | VWG1894 | VWG1894 | VWG1894 | VWG1894 | VWG1894 | VWG1894 | | |
| NSP | CLDGM ASSY | VWM1806 | VWM1806 | VWM1805 | VWM1805 | VWM1805 | VWM1805 | | |
| | CLDM ASSY | VWS1332 | VWS1332 | VWS1331 | VWS1331 | VWS1331 | VWS1331 | | |
| | -JCKB ASSY | VWV1578 | VWV1578 | VWV1579 | VWV1579 | VWV1579 | VWV1579 | | |
| | └MSWB ASSY | VWG1895 | VWG1895 | VWG1895 | VWG1895 | VWG1895 | VWG1895 | | |
| | DVDM ASSY | VW\$1328 | VWS1328 | VW\$1328 | VWS1328 | VWS1328 | VWS1328 | | |
| | DMYC ASSY | VWV1584 | VWV1584 | Not used | Not used | Not used | Not used | | |
| | MYCB ASSY | Not used | Not used | VWV1596 | VWV1596 | VWV1596 | VWV1596 | | |
| | SCRB ASSY | VWV1470 | VWV1470 | Not used | Not used | Not used | Not used | | |
| A \ | POWER SUPPLY ASSY | VWR1287 | VWR1287 | VWR1287 | VWR1287 | VWR1287 | VWR1287 | | |

^{*1:}Although VWG1890,VWG1936,VWG1935 and VWG1889 are different in part number,they have the same service parts list.

PARTS LIST

Mark No. Description Part No. Mark No. Description Part No.

MACB ASSY OTHERS

PC BOARD (MACB) VNP1479

A LMSB ASSY

SWITCHES

S101-S103 DSG1017

^{*2:}Although VWG1938 and VWG1893 are different in part number, they have the same service parts list.

| Mark No. Description | Part No. | Mark No. Description | Part No. |
|--|--|--|---|
| OTHERS CN101 10P CONNECTOR | 52044-1045 | OTHERS CN916 KR CONNECTOR | S2B-PH-K-S |
| B PKSB ASSY | | | |
| SWITCHES S104,S105 | DSG1017 | BISB ASSY SWITCH | DCC4047 |
| FG ASSY | | S901 OTHERS CN914 KR CONNECTOR | DSG1017 S2B-PH-K-S |
| SEMICONDUCTOR | | | |
| D101 | GP1S24 | FLKY ASSY | |
| MECHB ASSY | | OTHERS | VINID4004 |
| OTHERS PC BOARD (MECHB) | VNP1599 | PC BOARD (FLKY) | VNP1631 |
| | | FLKB ASSY | |
| D CNNB ASSY | | SEMICONDUCTORS | |
| OTHERS | | IC101 | PD4890A |
| CN903 23P FFC CONNECTOR CN901 26P FFC CONNECTOR CN905,CN906 KR CONNECTOR CN902 26P FFC CONNECTOR | 52030-2310 52030-2610 S2B-PH-K-S SLW26R-1C7 | IC102 Q102 Q101 D106 | S-806D DTD113ES PDTC124EK EP05Q04 |
| CN904 27P FFC CONNECTOR | SLW27R-1C7 | D102 D101 D103,D104 D105 | MA111 RB411D SLP3118C51H SLP4118C51H |
| TNMB ASSY | | CMATCHEC | |
| OTHERS | | SWITCHES S101-S108 | RSG1030 |
| CN911 6P FFC CONNECTOR CN912 KR CONNECTOR CN913 KR CONNECTOR | 52044-0645 B2B-PH-K-S B3B-PH-K-S | CAPACITORS C110 | CEAL470M6R3 |
| DCSB ASSY | | C108 C106 C101,C102,C104,C105,C111 C103,C107,C109,C112,C113 | CEHAQ471M6R3 CEJA470M6R3 CKSQYB102K50 CKSQYF104Z25 |
| SWITCH | | RESISTORS | |
| S902 | DSG1017 | All Resistors | RS1/10S□□□J |
| OTHERS CN915 KR CONNECTOR | S2B-PH-K-S | OTHERS CN103 FJ CONNECTOR 4P CN102 KR CONNECTOR | 04P-FJ B2B-PH-K-S |
| C LCSB ASSY | | REMOTE RECEIVER UNIT V101 FL TUBE J1 EARTH CABLE | GP1U28X VAW1046 VDA1654 |
| SWITCH S903 | DSG1017 | SPACER CN101 14P CONNECTOR HOLDER X101 CERAMIC RESONATOR(5MHz) | VEC1599 VKN1274 VNF1087 VSS1104 |

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| Mark N | o. Description | Part No. | Mark | No. | Description | Part No. |
|---|--------------------------------|-----------------------|-----------------|-------------------|------------------|----------------------------------|
| | | | <i>A</i> 5 | D212 | | RD33FB2 |
| W P\ | WSB ASSY | | Δ | D213,D214 D711 | ,D612,D613 | 10ELS2MTZJ8.2B 10ELS2MTZJ8.2B |
| SEMICO | ONDUCTORS | | Æ | D311 | DIODE(F10P04Q) | VZF1052 |
| Q | 201 | PDTA124EK | ä | DE11 | | COL AGO |
| D | 201 | SLP9118C51H | Ţ. | D511 D713 | | S2LA20 MTZJ30A |
| SWITCH | H | | ОТНІ | =DC | | |
| S | 201 | RSG1030 | | | |) (E164.0 # 0 |
| | | | ₫ \ | F101 | FUSE(3.15A/250V) | VEK1050 |
| RESIST | ORS | | <u>4.</u> | P211,P611 | FUSE(136°C) | VEK1033 |
| Al | II Resistors | RS1/10S□□□J | \$\\ \tag{\Psi} | P213,P612 | , | VEK1036 |
| | | | <i>3</i> \ | P214,P511 | , | VEK1045 |
| OTHER | C | | <u> 4</u> 5 | P311 | FUSE(1A/60V) | VEK1041 |
| | N201 FJ CONNECTOR 4P | 04R-FJ | | | | |
| N DI | ILB ASSY | | | | | |
| | | | | DVDM A | ΔSSY | |
| OTHER | | MAM MILIC A | | | | |
| | N301 KR CONNECTOR L301 LAMP | B2B-PH-K-S VEL1022 | SEM | CONDUC | TORS | |
| Fl | LOUI LAWIP | VELTUZZ | | IC171 | | BA10393F |
| | | | | IC151 | | BA6797FP |
| CLDG | M ASSY | | | IC813 | | CY2081SL-611 |
| CLDG | IVI ASST | | | IC702 | | HM514800CJ-7 |
| OTHER | S | | | IC101 | | LA9700M |
| | PC BOARD (CLDGM) | VNP1630 | | IC201 | | LC78650E-P |
| | | | | IC201 IC802 | | MB811171622A-100FN |
| | | | | IC801 | | MB86371 |
| | OWED CHIDDLY ACCY | | | IC815,IC81 | 6 | MC14577CF |
| E P | OWER SUPPLY ASSY | | | IC271,IC30 | 2 | NJM2100M |
| SEMICO | ONDUCTORS | | | IC203 | | NJM2107F |
| | 301 | AN1431T | | IC901 | | PD2058A |
| · · | C311 (SI-3050CA) | VZF1047 | | IC601 | | PD3381A |
| | (PQ3RD13) | VZF1048 | | IC701 | | PD4833A |
| | S511 (| UPC358C | | IC501 | | PD4889A |
| ∄, Q | 101,Q150,Q151 FET(2SK2333) | VZF1056 | | ICEO0 | | DDK006 A |
| | | | | IC602 IC502 | | PDK026A SRM2B256SLMX70 |
| | 102 | 2SC3377 | ∕ ‡∖ | IC401 | | TA78M08F |
| | 211,Q212 | T7F4T | / 4 % | | 4,IC206,IC902 | TC4W53F |
| | 213,Q214,Q351 | 2SC1740S | | IC604 | 1,10200,10002 | TC551001BFL-85 |
| | 512,Q613,Q614 611,Q612 | 2SA933S T7F4S | | | | |
| /#\ G (| 011,G012 | 17140 | | IC503 | | TC74HC573AF |
| Q | 350 | 2SD2007 | | IC804 | | TC74HCT541AF |
| _ | 5 11 | 2SD2395 | | IC303 | _ | TC74HCU04AF |
| <u> </u> | 101 | D2SB60F4004 | | IC807,IC80 | 18 | TC74LCX245FT |
| | 103 | MTZJ2.7B | | IC821 | | TC74VHC00FT |
| | 351 | MTZJ2.7B | | IC814,IC82 | 20 | TC74VHC02FT |
| | | | | IC505,IC60 | | TC74VHC02FT |
| 1 | 104 | 1SS270A | | IC703 | | TC74VHC135F1 |
| _ | 350,D512 | 1SS270A | | IC504 | | TC74VHC20FT |
| | 106 | RD18FB2 | | IC805,IC80 | 6,IC809 | TC74VHC541FT |
| - · · · · · · · · · - · - · - · · - · · - · · · · - · | 153,D220,D620 DIODE(D1N60) | VZF1045 | | - | | |
| ∆ D: | 200 | PS2561L1-1VM | | IC506 | | TC74VHCT245AFT |
| ıi∖ Di | 211,D611 | 31DF2 D712 | | IC817 | | TC74VHCT541AFT |

31DF2 D712

D211,D611

| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
|--------------|-------------------|---------------------------------|--------------------------|------|--------------------------|-----------------------|---|
| | IC811,IC818 | .IC819 | TC7SHU04F | | C131,C | 135,C205,C206,C301 | CEV470M6R3 |
| | IC810 | | TC7WU04F | | C303,C4 | 404,C406,C408,C410 | CEV470M6R3 |
| | IC301 | | TLC5540INS | | • | 504,C832,C836,C841 | CEV470M6R3 |
| | ICC02 | | MZLIADAD | | C887 | | CEV470M6R3 |
| | IC603 | | VKH1012 | | | | |
| | IC6003 | | VYW1536 | | C211 | 40.4.0040.0000 | CKSQYB104K25 |
| /\$ \ | Q401 | | 2SB1260 | | | 124,C216,C220,C229 | CKSQYB105K10 |
| | Q108 | | HN1K03FU | | • | 275,C308,C326 | CKSQYB105K10 |
| | Q455,Q831,0 | Q832,Q851,Q852 | IMT1A | | C332,C | 333,C730,C731 | CKSQYB105K10 |
| | Q871,Q872 | | IMT1A | | C416,C8 | 818,C823,C828 | CKSQYF105Z16 |
| | Q103,Q402,0 | Q403.Q873 | IMX1 | | C213,C2 | 292,C309,C321 | CKSRYB102K50 |
| | Q102,Q104, | | IMZ1A | | C105,C | 106,C108,C146,C147 | CKSRYB103K50 |
| | Q106,Q603 | | PDTA114EK | | C151,C | 154-C157,C161,C207 | CKSRYB103K50 |
| | Q107,Q109, | Q602 | PDTC114EK | | C217,C | 221,C247,C276,C318 | CKSRYB103K50 |
| | Q601,Q771,0 | 0779 | PDTC114TK | | C320 C | 620,C705,C722,C772 | CKSRYB103K50 |
| | D301 | WIIZ | KV1410 | | C859 | 020,0700,0722,0772 | CKSRYB103K50 |
| | | | MA152WK | | | 162-C165,C223,C224 | CKSRYB104K16 |
| | D171,D172 | | | | | 273,C274,C311,C312 | CKSRYB104K16 |
| | D601 | | RB501V-40 | | C315 | 270,0274,0011,0012 | CKSRYB104K16 |
| COIL | S AND FIL | TERS | | | | | |
| | | | DTE+067 | | C141,C | 271 | CKSRYB222K50 |
| | F771,F778,F | | DTF1067 | | C328 | | CKSRYB223K25 |
| | F896 | FERRITE CORE | VTF1077 | | C122 | | CKSRYB473K16 |
| | F952 | FERRITE CORE | VTF1080 | | C102,C | 103,C113,C129 | CKSRYF104Z16 |
| | F801 F401-F406 | VIDEO FILTER CHIP EMI FILTER | VTF1098 VTH1037 | | C132-C | 134,C136,C137,C159 | CKSRYF104Z16 |
| | 1 401 1 400 | | V 1111007 | | C166 C | 191,C202-C204,C209 | CKSRYF104Z16 |
| | L301 | (1.5μH) | VTL1059 | | • | 218,C219,C222 | CKSRYF104Z16 |
| | L101,L302 | (10μH) | VTL1061 | | , | 228,C235,C237,C241 | CKSRYF104Z16 |
| | L802,L803 | (22µH) | VTL1067 | | | 302,C304,C305,C317 | CKSRYF104Z16 |
| | L335,L340,L | 342 CHIP BEADS | VTL1074 | | • | , , , | CKSRYF104Z16 |
| | L777,L780-L | 787,L895 CHIP BEADS | VTL1075 | | C322,C402,C403,C405,C407 | | UNSH11104210 |
| | 1.00** 1.000 | OLUD DE ADO | V.T. 40** | | C409,C4 | 411,C413,C415 | CKSRYF104Z16 |
| | L897-L899 | CHIP BEADS | VTL1075 | | C502,C5 | 503,C505-C509 | CKSRYF104Z16 |
| | | | | | C602-C | 611,C614,C615,C617 | CKSRYF104Z16 |
| CAP | ACITORS | | | | C621,C6 | 622,C702,C703 | CKSRYF104Z16 |
| | C623 | | CCSRCH100D50 | | C707-C | 721,C723,C732-C734 | CKSRYF104Z16 |
| | | C291,C612,C613 | CCSRCH101J50 | | | | |
| | C700,C735,0 | · | CCSRCH101J50 | | C736,C | 738,C740-C742,C771 | CKSRYF104Z16 |
| | C897,C898,0 | , | CCSRCH101J50 | | C791.C8 | 300,C802,C805-C812 | CKSRYF104Z16 |
| | , , | C215,C231,C232 | CCSRCH151J50 | | • | 817,C819-C822 | CKSRYF104Z16 |
| | 0111,0100,0 | 72.10,0201,0202 | 0001101110100 | | , | 325,C827,C829,C830 | CKSRYF104Z16 |
| | C248 | | CCSRCH151J50 | | • | 334,C837,C839,C840 | CKSRYF104Z16 |
| | C125,C148,0 | 0329 | CCSRCH180J50 | | , - | ,,, | |
| | C112.C118 | JOE 5 | CCSRCH220J50 | | C842-C | 848,C861,C862,C867 | CKSRYF104Z16 |
| | • | C199,C319,C324 | CCSRCH330J50 | | | 872,C876,C878,C881 | CKSRYF104Z16 |
| | C121,C130,C | 2133,0313,0324 | CCSRCH331J50 | | • | 888-C890.C902-C905 | CKSRYF104Z16 |
| | C120 | | CCShChSS1350 | | C911 | 300-0030,0302-0303 | CKSRYF104Z16 |
| | C310,C323,0 | 0327 | CCSRCH470J50 | | | 855,C857,C858 (2.2μF) | VCG1030 |
| | C230 | 5021 | CCSRCH471J50 | | | (m.mp.,) | , |
| | C126,C331,0 | ~020 | CCSRCH560J50 | | C922-C | 924 (2.2μF) | VCG1030 |
| | , , | | CCSRCH580050 | | VC301 | (40pF) | VCM1010 |
| | C127,C330,C | C863,C873,C882 | CCSRCH680J50 | | V 0001 | (40pi) | VOIVITOTO |
| | | | | RESI | STORS | | |
| | C401,C417,0 | C892 | CEHV470M10 | | B507 B | 508,R624,R628,R633 | RA4C103J |
| | C101,C104,0 | C201,C325,C601 | CEV101M6R3 | | • | 704,R717,R718 | RA4C103J |
| | C701,C704,0 | C706,C801 | CEV101M6R3 | | • | 746,R761,R762,R792 | RA4C103J |
| | C803,C804,0 | C813-C815,C826 | CEV101M6R3 | | R812,R8 | , , , | RA4C103J |
| | C901 | | CEV101M6R3 | | , | 501,R502,R505,R506 | RA4C103J RA4C220J |
| | C123,C158,0 | C/110 C/11/ | CEV220M16 | | | | |
| | C835,C895 | JT 12,UT 14 | CEV220M16 CEV221M4 | | | 607,R712,R713,R719 | RA4C220J |
| | 5555,5655 | | ↓∟ ∨ ∟∟ | | R724,R7 | 748,R749,R791 | RA4C220J |
| | | | | | | | |

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| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
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| | R802,R803 | 3,R808,R901,R905 | RA4C220J | | IC351 | | PA0061AM |
| | • | 9,R910,R912,R913 | RA4C220J | | IC202 | | PD0236AM |
| | R916-R919 | , , | RA4C220J | | IC101 | | PD0261A2 |
| | 110101101 | | 11/1-02200 | | IC201 | | PD2029AM(L) |
| | Dena Dena | D610 D610 | RA4C470J | | IC500 | | PD6159B |
| | • | 3,R610,R613,R618 | | | 10000 | | FD01395 |
| | R101,R11-R14,R141 | | RS1/10S0R0J | | 10000 | | TAGA40416 |
| | R15-R17,F | • | RS1/10S0R0J | | IC902 | 440.10700.10007 | TA8410AK |
| | | 3,R300,R319,R333 | RS1/10S0R0J | | , | 410,IC762,IC907 | TC4W53F |
| | R411-R413 | 3,R701,R775,R776 | RS1/10S0R0J | | IC203 | | TC74HC157AF |
| | | | | | IC620 | | TC74HC4053AF |
| | R891,R893 | 3,R902,R908,R961 | RS1/10S0R0J | | IC205,IC | 206 | TC7S02F |
| | R205 | | RS1/10S101J | | | | |
| | R835,R839 | 9,R855,R859,R875 | RS1/16S1001F | | IC102 | | TC7S32F |
| | R881 | | RS1/16S1001F | | IC209,IC | 550 | TC7SU04F |
| | R834,R854 | 1,R874 | RS1/16S1201F | | IC650 | | TC7W00F |
| | | | | | IC204,IC | 208 | TC7WU04F |
| | R823-R825 | 5 | RS1/16S1500F | | Q121,Q1 | 82,Q351,Q353,Q354 | 2PB709A |
| | R117,R118 | } | RS1/16S1501F | | · | | |
| | R126 | | RS1/16S1502F | | Q356.Q4 | 11,Q451,Q456,Q461 | 2PB709A |
| | R241,R247 | 7 | RS1/16S2202F | | • | 84,Q485,Q580,Q645 | 2PB709A |
| | • | 3,R155,R168,R169 | RS1/16S2702F | | Q672 | , | 2PB709A |
| | 11110,11100 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 7101710027021 | | _, _ | 270,Q391-Q393,Q401 | 2PD601A |
| | D173 D17/ | 1,R213,R228,R229 | RS1/16S2702F | | • | 141,Q481,Q486,Q626 | 2PD601A |
| | R248 | +,1 12 10,1 1220,1 1220 | RS1/16S2702F | | Q420,Q | r+1,Q+01,Q+00,Q020 | 21 D00 1A |
| | | D150 D164 D167 | | | 0001 00 | 200 0000 0040 0047 | ODDCO1 A |
| | • | S,R158-R164,R167 | RS1/16S4702F | | | 32,Q636,Q646,Q647 | 2PD601A |
| | • | 2,R175,R194,R227 | RS1/16S4702F | | | 358,Q661,Q662,Q671 | 2PD601A |
| | VR801 | $(1k\Omega)$ | VCP1125 | | - | 311,Q903-Q906 | 2PD601A |
| | | | | | Q834 | | 2SA854S |
| | Other Resi | stors | RS1/16S□□□J | | Q141 | | 2SA933S |
| | | | | | | | |
| OTHE | ERS | | | | Q152 | | 2SC3082K |
| | CN903 | PH CONNECTOR | S13B-PH-SM3 | | Q261,Q2 | | 2SD2114K |
| | CN101 | PH CONNECTOR | S14B-PH-SM3 | | Q211-Q2 | 214,Q217,Q357,Q358 | PDTA124EK |
| | CN801 | PH CONNECTOR | S4B-PH-SM3 | | Q394,Q4 | l66,Q467,Q483,Q651 | PDTA124EK |
| | | 200,TP300,TP400 | O-ID I II OMO | | Q981 | | PDTA124EK |
| | 11 100,11 2 | CHECKER-CHIP | VKF1001 | | | | |
| | | OHLONEH-OHIF | VICITOOT | | Q122,Q1 | 42,Q143,Q181 | PDTC124EK |
| | CN201 | 14P CONNECTOR | VKN1324 | | Q215,Q2 | 216,Q652,Q901,Q908 | PDTC124EK |
| | | | | | D215 | | DAN202K |
| | CN106 | 7P FFC CONNECTOR | VKN1411 | | D221 | | EC10QS04 |
| | CN105 | 14P FFC CONNECTOR | VKN1418 | | D311,D5 | 05,D510 | KV1851 |
| | , | 902 22P FFC CONNECTOR | VKN1426 | | • | | |
| | CN103 | 26P FFC CONNECTOR | VKN1430 | | D101.D1 | 41,D181,D480,D650 | MA111 |
| | | | | | , | 02,D981 | MA111 |
| | KN1-KN3 | EARTH METAL FITTIN | VNF1109 | | D355,D3 | • | MA152WA |
| | | LABEL | VRW1634 | | • | 42,D143 | UDZ\$5.1B |
| | X602 CER | AMIC RESONATOR(20MHz) | VSS1114 | | 5110,51 | 12,5 . 10 | 05200.15 |
| | X501 CER | RAMIC RESONATOR(10MHz) | VSS1115 | 0011 | O AND | EU TEDO | |
| | X901 CER | AMIC RESONATOR(24MHz) | VSS1118 | COIL | S AND | FILTERS | |
| | | | | | F590 | | DTF1069 |
| | | | | | L9231,L9 | 9232,L9584 | DTL1028 |
| | CLDM | ASSY (VWS13 | 32) | | L413,L4 | 14 | LAU120J |
| | | | , | | L401 | | LAU121J |
| CEMI | CONDUC | TOPS | | | L482 | | LAU180J |
| SLIVII | | TONS | D 4 4 0 0 0 0 E | | | | |
| | IC761 | | BA10393F | | L352,L82 | 21-L823 | LAU181J |
| | , | 30,IC905,IC906 | BA4560F | | L201,L20 | 09,L251,L252 | LAU220J |
| | IC171,IC80 | 03 | LA6510 | | L311,L31 | I2,L351,L461 | LAU220J |
| | IC400 | | LA7134M | | L831,L83 | • | LAU220J |
| | IC801 | | LA9425 | | L412,L58 | | LAU270J |
| | | | | | | - - | |
| | IC901 | | LA9430M | | L431,L48 | 34 | LAU330J |
| | IC908 | | LC78625E | | L432 | | LAU390J |
| | IC182,IC18 | 33 | MM6558XF | | L433,L57 | 75 | LAU430J |
| Æ. | IC221 | | NJM78L08A | | L411 | · | LAU470J |
| <u> </u> | IC222 | | NJM79L08A | | L671 | | LAU4R7J |
| -L | | | | | LU1 1 | | EAUTI 170 |

| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
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| | L462 | | LAU560J | | | | |
| | L483 | | LAU8R2J | | C984 | | CEAT4R7M50 |
| | L463 | | LFA561J | | C383,C9 | 922 | CEATR47M50 |
| | F361 | 684kHz B.P.F | VTF1035 | | C936,C9 | | CEJA101M6R3 |
| | | | | | • | 340 | CEJA220M50 |
| | F362 | 1066kHz B.P.F | VTF1036 | | C902 | 30 A | |
| | E571 | | VTF1068 | | C863,C9 | 934 | CEJA2R2M50 |
| | F571 | 4.4.0841.1 | | | Coco | | |
| | F573 | 14.3MHz FILTER | VTF1099 | | C862 | | CEJA4R7M50 |
| | L403,L404 | , , | VTL1058 | | C439 | | CEV100M16 |
| | L223,L23 | O CHIP BEADS | VTL1098 | | • | 473,C475,C507,C531 | CEV101M6R3 |
| | | | | | C535,C | 537,C539,C541,C561 | CEV101M6R3 |
| CAPA | ACITORS | } | | | C571,C5 | 581,C591,C593 | CEV101M6R3 |
| | C229.C41 | 4,C418,C421,C429 | CCSQCH100D50 | | ± | | |
| | C483,C54 | | CCSQCH100D50 | | C477 | | CFTLA154J50 |
| | , | 2,C655,C821 | CCSQCH101J50 | | C478 | | CFTLA683J50 |
| | ŕ | 39,C843,C864,C865 | CCSQCH101J50 | | C425,C9 | 910 | CKSQYB102K50 |
| | | | CCSQCH101350 CCSQCH102J50 | | C620,C8 | 845,C881,C917,C942 | CKSQYB104K25 |
| | C921,C94 | Ю | CCSQCFT02000 | | C506,C | 511,C933 | CKSQYB105K10 |
| | C484 | | CCSQCH120J50 | | _ | | |
| | C413 | | CCSQCH121J50 | | C923 | | CKSQYB153K25 |
| | C497,C56 | eo. | CCSQCH150J50 | | C911 | | CKSQYB154K16 |
| | , | | | | C903 | | CKSQYB222K50 |
| | • | 94,C823,C901 | CCSQCH151J50 | | C379,C3 | 380 | CKSQYB392K50 |
| | C313,C35 | 52,0432 | CCSQCH180J50 | | C373-C | 376,C388,C912,C932 | CKSQYB472K50 |
| | 0005.050 | 14 OE00 O004 O070 | 000001000150 | | | | |
| | , |)4,C509,C824,C973 | CCSQCH220J50 | | C963 | | CKSQYB473K25 |
| | C489,C55 | | CCSQCH221J50 | | C763 | | CKSQYB682K50 |
| | , | 54,C416,C428,C433 | CCSQCH270J50 | | | 112,C117,C121,C124 | CKSQYF103Z50 |
| | C485,C83 | | CCSQCH270J50 | | | 155,C173,C181 | CKSQYF103Z50 |
| | C104,C10 |)5,C356,C431,C451 | CCSQCH330J50 | | • | 184,C188,C189,C201 | CKSQYF103Z50 |
| | | | | | 0100,0 | 104,0100,0100,0201 | 01100111100200 |
| | C458,C57 | 79,C596 | CCSQCH330J50 | | C203.C2 | 206,C208,C210,C216 | CKSQYF103Z50 |
| | C456 | | CCSQCH360J50 | | • | 252,C281-C283,C311 | CKSQYF103Z50 |
| | C351,C40 |)5,C672 | CCSQCH390J50 | | , | 318,C319,C359-C362 | CKSQYF103Z50 |
| | C671,C92 | 244 | CCSQCH391J50 | | • | 386,C389,C411,C419 | CKSQYF103Z50 |
| | C217,C22 | 22,C257-C260,C461 | CCSQCH470J50 | | , | 426,C442,C452,C457 | CKSQYF103Z50 |
| | | | | | 0.422,0 | 120,0112,0102,01107 | 01100111100200 |
| | C371,C37 | ⁷ 2,C925 | CCSQCH471J50 | | C466.C | 505,C510,C558 | CKSQYF103Z50 |
| | C459 | | CCSQCH560J50 | | • | 575,C576,C580,C583 | CKSQYF103Z50 |
| | C941 | | CCSQCH561J50 | | | 761,C762,C801,C803 | CKSQYF103Z50 |
| | C597 | | CCSQCH5R0C50 | | • | , , | CKSQYF103Z50 |
| | C358,C40 | 8,C598,C806 | CCSQCH680J50 | | • | 331,C833,C836,C841 | |
| | | | | | C040,C0 | 851,C853,C861 | CKSQYF103Z50 |
| | C920 | | CCSQCH681J50 | | C882 C | 883,C885,C924,C935 | CKSQYF103Z50 |
| | C434-C43 | 36,C822,C829 | CCSQCH7R0D50 | | • | , , | · · · · |
| | C255,C25 | 6,C357,C825 | CCSQCH820J50 | | , | 939,C945-C947,C962 | CKSQYF103Z50 |
| | C462 | | CCSQCH910J50 | | C974,C9 | | CKSQYF103Z50 |
| | C123 | | CCSQSL102J50 | | • | 103,C122,C151,C152 | CKSQYF104Z25 |
| | | | | | C171,C | 172,C182,C199,C218 | CKSQYF104Z25 |
| | C656 | | CEANP100M16 | | C267 C | 268,C385,C387,C392 | CKSQYF104Z25 |
| | C629,C63 | 39 | CEANP220M10 | | , | 404,C430,C438,C440 | CKSQYF104Z25 |
| | C986 | | CEANP3R3M50 | | • | , , , | |
| | C187,C44 | 1,C856 | CEANP470M6R3 | | , | 447,C467,C468,C472 | CKSQYF104Z25 |
| | C221,C39 | 94,C975 | CEAT100M50 | | , | 476,C491,C493,C496 | CKSQYF104Z25 |
| | · | | | | C498,C | 508,C524,C532,C536 | CKSQYF104Z25 |
| | C391,C43 | 37,C832,C834,C884 | CEAT101M10 | | CE20 CI | = 40 CE 40 CEEC CEE7 | CKCOVE40470E |
| | C269,C27 | 70,C867,C929 | CEAT1R0M50 | | , | 540,C542,C556,C557 | CKSQYF104Z25 |
| | • | 27,C928,C931 | CEAT220M50 | | • | 572,C582,C586,C589 | CKSQYF104Z25 |
| | C981,C98 | , | CEAT220M50 | | • | 594,C622,C626-C628 | CKSQYF104Z25 |
| | • |)2,C209,C223,C224 | CEAT470M16 | | • | 636,C638,C660 | CKSQYF104Z25 |
| | ~ 1 Vm, Vm | ,~.~,~,~ | ~ (1 Tr O(VI 1 U | | C681-C | 683,C764,C805,C847 | CKSQYF104Z25 |
| | C316.C31 | 7,C382,C390,C802 | CEAT470M16 | | 00== 0 | DEO 0000 0010 0011 | 01/001/5:5:5== |
| | , | 2,C852,C854 | CEAT470M16 | | , | 858,C866,C913,C914 | CKSQYF104Z25 |
| | C859,C86 | • | CEAT470M16 | | , | 971,C972,C976 | CKSQYF104Z25 |
| | C261-C26 | | CEAT470M25 | | • | 685,C855,C926,C930 | CKSQYF223Z50 |
| | C253,C25 | | CEAT470M23 | | C938 | | CKSQYF223Z50 |
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| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
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| | C377,C378 | 3,C908,C909 | CKSQYF224Z25 | | | ASSY (VWS1331) | |
| | C154.C156 | 6,C174,C312,C460 | CKSQYF473Z50 | U | CLDIVI | ASSI (VVS ISSI) | |
| | C826,C828 | | CKSQYF473Z50 | 051 | | OTODO | |
| | C265,C266 | | CQMBA332J50 | SEIVI | ICONDU | CIORS | |
| | VC301 | (20pF) | VCM1008 | | IC761 | | BA10393F |
| | | (· · / | | | , | 680,IC905,IC906 | BA4560F |
| DEGI | STORS | | | | IC352 | | CA0002AM |
| NESI | | | D 4 4 0 0 0 4 1 | | IC171,IC | 803 | LA6510 |
| | R753 | _ | RA4C221J | | IC400 | | LA7134M |
| | R203,R752 | | RA4C471J | | | | |
| | R591,R592 | | RA4C681J | | IC801 | | LA9425 |
| | • | 4,R837,R839 | RN1/10SE1002D | | IC901 | | LA9430M |
| | R891,R892 | 2 | RN1/10SE1002D | | IC908 | | LC78625E |
| | D160 D160 | <u>.</u> | DN14/400E4000D | <i>t.</i> | IC182,IC | 183 | MM6558XF |
| | R152,R156 |) | RN1/10SE1003D | 4 | IC221 | | NJM78L08A |
| | R532 | | RN1/10SE1100D | | | | |
| | R425 | | RN1/10SE1202D | Á | IC222 | | NJM79L08A |
| | R531 R631 | | RN1/10SE1800D RN1/10SE2001D | | IC101 | | PD0260A2 |
| | nuoi | | HNI/ IUSEZUUID | | IC201 | | PD2029AM(L) |
| | R635 | | RN1/10SE2701D | | IC500 | | PD6159B |
| | | D002 D004 | RN1/10SE2701D RN1/10SE3302D | | IC902 | | TA8410AK |
| | • | 3,R893,R894 | RN1/10SE3302D | | | | |
| | R653 | 4,R259-R262 | RN1/10SE4/02D | | IC181,IC | 762,IC907 | TC4W53F |
| | R650 | | RN1/10SE6800D | | IC203 | | TC74HC157AF |
| | nooo | | MINIT TOSEGOOD | | IC205,IC | 206 | TC7S02F |
| | VR450 | (2.2kΩ) | PCP1025 | | IC102 | | TC7S32F |
| | | (2.2ks2) $(4.7k\Omega)$ | PCP1023 | | IC209,IC | 550 | TC7SU04F |
| | , | 607,VR609 (47kΩ) | PCP1031 | | | | |
| | Other Resi | , , , | RS1/10S | | IC204,IC | 208 | TC7WU04F |
| | Other resi | 3.013 | | | Q121,Q1 | 82,Q482,Q580 | 2PB709A |
| ATI II | | | | | Q269,Q2 | 70,Q391-Q393,Q401 | 2PD601A |
| OTHE | | | | | Q441,Q4 | 81,Q803,Q811 | 2PD601A |
| | CN103,CN | | 52045-0645 | | Q903-Q9 | 906 | 2PD601A |
| | CN102 | 10P FFC CONNECTOR | 52045-1045 | | | | |
| | CN101 | 15P FFC CONNECTOR | 52045-1545 | | Q834 | | 2SA854S |
| | CN802 | 11P CONNECTOR | B11P-SHF-1AA | | Q152 | | 2SC3082K |
| | CN403 | KR CONNECTOR | B13B-PH-K-S | | Q261,Q2 | | 2SD2114K |
| | ***** | | | | | 14,Q217,Q394,Q981 | PDTA124EK |
| | CN201 | KR CONNECTOR | B4B-PH-K-S | | Q122,Q1 | 81,Q215,Q216,Q901 | PDTC124EK |
| | CN202 | KR CONNECTOR | B7B-PH-K-\$ | | | | |
| | | SCREW | BBZ30P060FCC | | Q908 | | PDTC124EK |
| | CN402 | 14P CONNECTOR | BTFN14S-3SB7 | | D215 | | DAN202K |
| | CN401 | 20P CONNECTOR | BTFN20S-3SB7 | | D221 | | EC10QS04 |
| | 14050 | 00.000.000 | D1/D1001 | | D311,D50 | 05 | KV1851 |
| | JA252 | 2P PIN JACK | PKB1024 | | . | 04 5000 5004 | 31222 |
| | JA101,JA1 | | RKN1004 | | _ | 81,D902,D981 | MA111 |
| | | PCB BINDER | VEF1040 | | D115 | | UDZS5.1B |
| | ONIAAA ONI | 64P IC SOCKET | VKH1004 | | | | |
| | CN111,CN | 122 22P FFC CONNECTOR | VKN1253 | SWIT | CH | | |
| | ONIOOA | | \ #ZNIA OEO | | S102 | | VSH1020 |
| | CN801 | 27PFFC CONNECTOR | VKN1258 | | | | |
| | 0400 | SCREW PLATE | VNE1948 | | | | |
| | S102 | SLIDE SWITCH | VSH1020 | COII | SANDE | FILTERS | |
| | | RAMIC RESONATOR (9MHz) | VSS1040 VSS1081 | 00. L | | | DTEIOCZ |
| | ASII ONI | STALRESONATOR(16MHz) | V 3 3 1 0 0 1 | | F590 | CHIP BEADS | DTF1067 |
| | YEUE ODV | | VSS1103 | | , | 232,L9584 CHIP INPEDER | DTL1028 |
| | | (STALRESONATOR(14MHz) (STALRESONATOR | VSS1103 VSS1116 | | L413 | | LAU100J |
| | | | V 33 1110 | | L401 | 24 922 | LAU101J |
| | • | 432MHz) /Staldescalatod/15MH+\ | Veetter | | L352,L82 | 1-L0Z3 | LAU181J |
| | VOID CH | (STALRESONATOR(15MHz) | VSS1125 | | 1004 105 | 11.050 | LALIDOOL |
| | | | | | L201,L25 | • | LAU220J LAU220J |
| | | | | | L482,L83 | 2,L351,L412,L461 | LAU220J LAU220J |
| | | | | | L402,L03 | , | LAU220J LAU270J |
| | | | | | | · • | |

| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
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| | L431,L432, | L575 | LAU430J | | | | |
| | | | | | C902 | | CEJA220M50 |
| | L462 | | LAU560J | | C863,C9 | 934 | CEJA2R2M50 |
| | L414 | | LAU8R2J | | C862 | | CEJA4R7M50 |
| | L463 | | LFA561J | | C439 | | CEV100M16 |
| | F573 | 14.3MHz FILTER | VTF1099 | | C471,C4 | 473,C475,C507,C531 | CEV101M6R3 |
| | L403,L404 | (22µH) | VTL1058 | | | | |
| | | . | | | · . | 537,C539,C541,C561 | CEV101M6R3 |
| | L223,L230 | CHIP BEADS | VTL1098 | | , | 581,C591,C593 | CEV101M6R3 |
| | | | | | C477 | | CFTLA154J50 |
| CAPA | ACITORS | | | | C478 | 240 | CFTLA683J50 |
| | C229,C417 | ,C418,C421,C434 | CCSQCH100D50 | | C425,C9 | 910 | CKSQYB102K50 |
| | C543,C577 | • | CCSQCH100D50 | | C04E C0 | 004 0047 0040 | CKCONDIANA |
| | C353,C821 | ,C837-C839,C843 | CCSQCH101J50 | | • | 381,C917,C942 | CKSQYB104K25 |
| | C864,C865 | | CCSQCH101J50 | | C511,C9 | 133 | CKSQYB105K10 CKSQYB153K25 |
| | C921,C943 | } | CCSQCH102J50 | | C923 C911 | | CKSQYB153K25 CKSQYB154K16 |
| | | | | | C903 | | CKSQYB134K16 CKSQYB222K50 |
| | C432,C436 | ,C483 | CCSQCH120J50 | | 0903 | | CNOCTBEERNOU |
| | C412 | | CCSQCH121J50 | | C379,C3 | 280 | CKSQYB392K50 |
| | C408,C414 | ,C484,C569 | CCSQCH150J50 | | , | 376,C388,C912,C932 | CKSQYB472K50 |
| | C355,C823 | 3,C901 | CCSQCH151J50 | | C963 | 370,0300,0312,0332 | CKSQYB472K30 |
| | C313,C352 |) - | CCSQCH180J50 | | C763 | | CKSQYB682K50 |
| | | | | | | 112,C117,C121,C124 | CKSQYF103Z50 |
| | C205,C509 | ,C824,C973 | CCSQCH220J50 | | 0100-0 | 112,0117,0121,0124 | ONOG II 100230 |
| | C413,C555 | ; | CCSQCH221J50 | | C153 C1 | 155,C173,C181 | CKSQYF103Z50 |
| | C550 | | CCSQCH240J50 | | , | 184,C188,C189,C201 | CKSQYF103Z50 |
| | C230,C354 | ,C411,C416,C431 | CCSQCH270J50 | | • | 206,C210,C216 | CKSQYF103Z50 |
| | C830 | | CCSQCH270J50 | | , | 252,C281-C283,C311 | CKSQYF103Z50 |
| | | | | | , | 318,C319,C361,C362 | CKSQYF103Z50 |
| | , | ,C356,C433,C451 | CCSQCH330J50 | | | ,, | |
| | C579,C596 | | CCSQCH330J50 | | C381,C3 | 386,C389,C422,C442 | CKSQYF103Z50 |
| | C351,C407 | ,C485 | CCSQCH390J50 | | C510,C5 | 558,C575,C576,C580 | CKSQYF103Z50 |
| | C9244 | 0000 040E | CCSQCH391J50 | | C583,C5 | 587,C761,C762,C801 | CKSQYF103Z50 |
| | 0217,0222 | 2,C257-C260,C405 | CCSQCH470J50 | | C803,C8 | 311,C831,C833,C836 | CKSQYF103Z50 |
| | C461 C500 | \ | CCSQCH470J50 | | C841,C8 | 346,C851,C853,C861 | CKSQYF103Z50 |
| | C461,C590 C925 | | CCSQCH470350 CCSQCH471J50 | | | | |
| | C923 | | CCSQCH561J50 | | C882,C8 | 383,C885,C924,C935 | CKSQYF103Z50 |
| | C597 | | CCSQCH5R0C50 | | C937,C9 | 939,C945-C947,C962 | CKSQYF103Z50 |
| | C358,C598 | C806 | CCSQCH680J50 | | C974,C9 | | CKSQYF103Z50 |
| | 0000,000 | .,000 | 000001100000 | | , | 103,C122,C151,C152 | CKSQYF104Z25 |
| | C920 | | CCSQCH681J50 | | C171,C1 | 172,C182,C199,C218 | CKSQYF104Z25 |
| | C435,C822 | 2.C829 | CCSQCH7R0D50 | | 000-00 | | ~ |
| | · | ,C357,C825 | CCSQCH820J50 | | , | 268,C385,C387,C392 | CKSQYF104Z25 |
| | C459,C462 | , | CCSQCH910J50 | | , | 104,C419,C430,C438 | CKSQYF104Z25 |
| | C123 | | CCSQSL102J50 | | • | 145,C447,C472,C474 | CKSQYF104Z25 |
| | | | | | • | 508,C524,C532,C536 | CKSQYF104Z25 |
| | C986 | | CEANP3R3M50 | | U538,U | 540,C542,C556,C557 | CKSQYF104Z25 |
| | C187,C441 | ,C856 | CEANP470M6R3 | | 0560.08 | 70 CEOO CEOC CEOO | CKCOVE10470E |
| | C221,C394 | ,C975 | CEAT100M50 | | , | 572,C582,C586,C589 | CKSQYF104Z25 |
| | C391,C437 | ,C832,C834,C884 | CEAT101M10 | | • | 594,C681-C683,C764 347,C857,C858,C866 | CKSQYF104Z25 CKSQYF104Z25 |
| | C269,C270 | ,C867,C929 | CEAT1R0M50 | | , | 914,C919,C971,C972 | CKSQYF104Z25 |
| | | | | | C976 | 714,0313,0371,0372 | CKSQYF104Z25 |
| | C927,C928 | ,C931,C981,C982 | CEAT220M50 | | 0370 | | CINOQII 104ZZJ |
| | C102,C202 | 2,C223,C224 | CEAT470M16 | | C186 C6 | 85,C855,C926,C930 | CKSQYF223Z50 |
| | C316,C317 | ,C382,C390,C802 | CEAT470M16 | | C938 | ,00,000,0020,0000 | CKSQYF223Z50 |
| | C804,C842 | 2,C852,C854 | CEAT470M16 | | | 378,C908,C909 | CKSQYF224Z25 |
| | C859,C860 |) | CEAT470M16 | | , | 156,C174,C312,C460 | CKSQYF473Z50 |
| | | | | | C826,C8 | , , , | CKSQYF473Z50 |
| | C253,C254 | | CEAT471M6R3 | | , | - | - |
| | C984 | | CEAT4R7M50 | | C265,C2 | 266 | CQMBA332J50 |
| | C383,C922 | | CEATR47M50 | | VC301 | (20pF) | VCM1008 |
| | C261-C264 | | CEGA470M25 | | • | • • • | |
| | C936,C940 | • | CEJA101M6R3 | | | | |

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| Mark | No. Description | Part No. | Mark | No. | Description | Part No. |
|--------|---|--------------------------------|--------|--------------|--------------------------------------|--------------------------------|
| RESI | STORS | | | D650,D65 | 5, D 699 | MA111 |
| | R751,R203 R753 | RA4C0R0J RA4C221J | COILS | S AND F | ILTERS | |
| | R591,R592,R752 | RA4C471J | | F101 | CHIP BEADS | DTF1067 |
| | R425,R833,R834,R837,R839 | RN1/10SE1002D | | L145 | CHIP INPEDER | DTL1028 |
| | R891,R892 | RN1/10SE1002D | | L401-L403 | 3 | LAU220J |
| | | | | L671 | | LAU4R7J |
| | R152,R156 | RN1/10SE1003D | | | | |
| | R532 R531 | RN1/10SE1100D RN1/10SE1800D | CAPA | CITORS | | |
| | R151,R893,R894 | RN1/10SE1800D | | C433 | | CCSQCH100D50 |
| | R153,R154,R259-R262 | RN1/10SE4702D | | C655 | • | CCSQCH101J50 |
| | | | | C401,C40 | 4 | CCSQCH220J50 |
| | VR450 (2.2kΩ) | PCP1025 | | C672 C671 | | CCSQCH390J50 CCSQCH391J50 |
| | VR603 $(4.7k\Omega)$ | PCP1028 | | 0071 | | 0000011091000 |
| | VR604,VR607,VR609 (47kΩ) | PCP1031 | | C121,C40 | 5 | CCSQCH470J50 |
| | Other Resistors | RS1/10S□□□J | | C403 | | CCSQCH560J50 |
| | | | | C402 | | CCSQCH6R0D50 |
| OTH | ERS | | | C411 | | CCSQCH910J50 |
| | CN103 6P FFC CONNECTOR | 52045-0645 | | C656 | | CEANP100M16 |
| | CN102 10P FFC CONNECTOR | 52045-1045 | | | _ | |
| | CN101 15P FFC CONNECTOR | 52045-1545 | | C629,C63 | | CEANP220M10 |
| | CN802 11P CONNECTOR | B11P-SHF-1AA | | , | 3,C109,C111,C113 2,C214,C216,C301 | CEAT101M10 CEAT101M10 |
| | CN201 KR CONNECTOR | B4B-PH-K-S | | , | 9,C311,C317,C319 | CEAT101M10 |
| | CN202 KR CONNECTOR | B7B-PH-K-S | | , | 2,C424,C426,C429 | CEAT101M10 |
| | SCREW | BBZ30P060FCC | | | _, _ ,,, | |
| | CN402 16P CONNECTOR | BTFN16S-3SB7 | | C462,C60 | 1,C603,C635 | CEAT101M10 |
| | CN401 20P CONNECTOR | BTFN20S-3SB7 | | C431,C43 | 4 | CEAT221M6R3 |
| | JA101,JA102 JACK | RKN1004 | | C436,C43 | 8 | CEJA101M6R3 |
| | | 14554040 | | C303 | ^ | CKSQYB102K50 |
| | PCB BINDER JA252 4P JACK | VEF1040 VKB1065 | | C620,C63 | 2 | CKSQYB104K25 |
| | 64P SHRINK IC SOCKET | VKH1003 | | C102.C10 | 4,C110,C112,C114 | CKSQYF104Z25 |
| | CN111,CN122 22PFFC CONNECTOR | | | , | 8,C213,C215,C217 | CKSQYF104Z25 |
| | CN801 27P FFC CONNECTOR | VKN1258 | | C302,C30 | 4,C306-C308,C310 | CKSQYF104Z25 |
| | | | | | 6,C318,C320-C322 | CKSQYF104Z25 |
| | SCREW PLATE | VNE1948 | | C406,C40 | 7,C413,C414,C423 | CKSQYF104Z25 |
| | X101 CERAMIC RESONATOR (9MHz) | VSS1040 | | C425 C42 | 7,C428,C430,C432 | CKSQYF104Z25 |
| | X311 CRYSTAL RESONATOR(16MHz) X505 CRYSTAL RESONATOR(14MHz) | VSS1081 VSS1103 | | - | 7,C439,C430,C432 7,C439,C442,C460 | CKSQYF104Z25 |
| | X312 CRYSTAL RESONATOR | VSS1103 VSS1116 | | • | 2,C604,C622 | CKSQYF104Z25 |
| | (18.432MHz) | V 0 0 1 1 1 0 | | • | 8,C630,C631 | CKSQYF104Z25 |
| | | | | C633,C63 | 4,C636,C638,C660 | CKSQYF104Z25 |
| | | | | .= | | |
| | MYCB ASSY | | | STORS | | B |
| CERA | ICOMPLICTORS | | | R424 | | RN1/10SE1801D |
| SEIVII | ICONDUCTORS | 07/200100 | | R422 R309 | | RN1/10SE2201D RN1/10SE2700D |
| | IC301 | CXD2046Q | | R425 | | RN1/10SE2700D |
| | IC102,IC103 IC101 | MB81C1501PF PD3212A | | R310,R42 | 0.R421 | RN1/10SE3301D |
| | IC620 | TC74HC4053AF | | ŕ | · | |
| | IC650 | TC7W00F | | R312,R42 | 6 | RN1/10SE4701D |
| | | | | R311,R65 | 3 | RN1/10SE5601D |
| | Q402,Q404,Q407,Q411,Q414 | 2PB709A | | R650 | 001.01 | RN1/10SE6800D |
| | Q645,Q672 | 2PB709A | | • | 22kΩ) | PCP1030 |
| | Q401,Q403,Q412,Q413,Q626 | 2PD601A | | Other Res | เธเบาธ | RS1/10S□□□J |
| | Q636,Q646,Q647,Q655-Q658 | 2PD601A | OTI IE | De | | |
| | Q661,Q662,Q671 | 2PD601A | OTHE | _ | 40D FEA 001111 | maa.ma |
| | Q408-Q410,Q415,Q416 | 2SC1740S | | CN602 | 10P FFC CONNECTOR | 52045-1045 |
| | Q417,Q420,Q651 | PDTA124EK | | CN CN601 | 4P MIN.DIN SOCKET KR CONNECTOR | AKP7023 B13B-PH-K-S |
| | Q418,Q419,Q652,Q681 | PDTC124EK | | CINUUI | INT CONNECTOR | じょうじ-1-11-10 |
| | | | | | | |

| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
|-------------|------------|-------------------|--------------|----------|--------------------------|-----------------------------------|--------------------|
| | CN101 | CONNECTOR 16P | BTFN16P-3RD7 | RES | ISTORS | | |
| | CN102 | CONNECTOR 20P | BTFN20P-3RD7 | | All Resist | tors | RS1/10S□□□J |
| | J1 | JUMPER WIRE | DB218NS0 | | | | |
| | JA101 | 2P JACK | VKB1094 | OTH | ERS | | |
| | | | | | | PCB BINDER | VEF1040 |
| | | | | | JA101 | Fr. A Fr. 77.1 1 Fr. 1 A 77.1 | VKB1056 |
| | JCKB | ASSY | | | | EARTH PLATE | VNF1097 |
| | CONDU | | | 0 | DMYC | ASSY | |
| | IC321,IC3 | | TC74HCU04AF | | ICONDU | | |
| ~ !! | _ | | | | IC801 | | BU4053BCF |
| OIL | S | | | | IC701 | | CXA1585Q |
| | L321,L33 | , | LAU220J | | IC702 | | CXA1645M |
| | L323,L34 | | PTL1003 | | IC301 | | CXD1171M |
| | L322,L34 | 2 FERRITE BEADS | RTF1167 | | IC201 | | CXD2024AQ |
| ۹P | ACITORS | } | | | IC703 | | HD74HC4053FP |
| | C332 | | CEAT101M10 | | IC102 | | HM530281RTT-28 |
| | C322,C32 | 24,C342,C344 | CEAT470M16 | | IC401 | | MM1093PF |
| | C321,C32 | 23,C325,C331,C341 | CKSQYF103Z50 | | IC603 | | NJM082M |
| | C343,C34 | 15 | CKSQYF103Z50 | A | IC991 | | NJM78M05FA |
| | C326,C34 | 16 | CKSQYF104Z25 | | | | |
| | | | | | IC101 | | PD4596A |
| | C393 | | CKSQYF224Z25 | | IC831 | | TA7302P |
| | | | | | IC103,IC | 608 | TC4W53F |
| ESI | STORS | | | | IC607 | | TC74HC221AF |
| . • • | All Resist | ors | RS1/10SDDJ | | IC602 | | TC74HC4053AF |
| | 7 1 100.01 | | | | IC605 | | TC74HC74AF |
| ru s | ERS | | | | | | |
| 111 | _ | KD OONNEOTOD | | | IC601 | | TC7S86F |
| | CN321 | KR CONNECTOR | B7B-PH-K-S | | IC606 | | TC7SU04F |
| | JA331 | OPTICAL LINK OUT | GP1F32T | | IC604 | C4 O0C0 O0C4 O0C4 | TC7WU04F |
| | | PCB BINDER | VEF1040 | | Q201,Q2 | 51,Q253,Q254,Q264 | 2PB709A |
| | JA251,JA | | | | 0054 00 | 00 OCOC OOOE OOO4 | 0,557004 |
| | | (FOR VWV1578) | VKB1074 | | , | 03-Q606,Q805,Q831 | 2PB709A |
| | | (FOR VWV1579) | VKB1077 | | , | 43,Q853,Q864,Q881 | 2PB709A |
| | | 4 | | | Q883-Q8 | , | 2PB709A |
| | JA321 | 1P PIN JACK | | | • | 32,Q241,Q252,Q261 | 2PD601A |
| | | (FOR VWV1578) | VKB1097 | | Q263,Q2 | 65,Q266,Q281-Q283 | 2PD601A |
| | | (FOR VWV1579) | PKB1028 | | O201 O2 | 02 0401 0601 070E | 2DD604 A |
| | | | | | • | 02,Q401,Q601,Q705 | 2PD601A |
| | | | | | | 03,Q806,Q808 12 Q821 Q822 Q833 | 2PD601A 2PD601A |
| 7 | 6000 | ACCV | | | | 12,Q821,Q822,Q833 42,Q851,Q852 | |
| | SCRB | M D D Y | | | • | 42,Q851,Q852 63,Q882,Q892 | 2PD601A 2PD601A |
| | CONDIT | OTODO | | | ₩ 001- ₩ 8 | 00,Q00Z,Q0 3 Z | 27 D00 IA |
| : IVI I | CONDU | CIOHS | | <u> </u> | Q991 | | 2SB1237X |
| | D101 | | 1SS353 | دف | | 02,Q701,Q711,Q804 | DTA124EK |
| | D102,D10 | 03 | UDZ5.6B | | , | 32,Q893,Q941 | DTA124EK |
| | | | | | | 02,Q702,Q703 | DTC124EK |
| VIT | CHES A | ND RELAYS | | | • | 13,Q807,Q813,Q894 | DTC124EK |
| | RY101-R | | VSR-005 | | G(12,G(1 | 10,0001,0010,000° | DIOIEMEN |
| | III IVI-N | . 100 | V ()1 1-000 | | Q942,Q9 | 92 | DTC124EK |
| | | | | | D991 | V | 11EQS06 |
| \P/ | ACITORS | Š | | | D991 D701,D7 | n o | 1SS254 |
| | C101-C10 | 04 | CCSQCH391J50 | | • | | |
| | C106,C10 | 08,C110,C112,C114 | CKSQYB102K50 | | D602,D7 | 1 1 | DAP202K |
| | C105,C10 | 07,C109,C111,C113 | CKSQYF104Z25 | | D992 | | S5566G(TPB2) |
| | - | | | | D601 | | SVC201SPA |

D601

SVC201SPA

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| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
|------|-----------|---|--------------|---|------------|-------------------------|----------------|
| COIL | S AND F | ILTERS | | *************************************** | C766 | | CEJA470M10 |
| | | 1H DELAY ADJUST COIL | DTL1001 | | | | |
| | L898 | ITI DELAT ADGUST COIL | LAU100J | | C623 | | CFTLA334J50 |
| | L299 | | LAU1003 | | C625,C718 | } | CFTLA474J50 |
| | | 2 244 242 | LAU150J | | C201,C223 | } | CKSQYB102K50 |
| | , | 2,L241,L242 | LAU1503 | | C191 | | CKSQYB104K25 |
| | L301,L302 | 2 | LAU 1503 | | C605 | | CKSQYB222K50 |
| | L602 | | LAU1R0J | | C204 C207 | 7,C403,C409,C410 | CKSQYF103Z50 |
| | L351,L601 | 1,L802,L899 | LAU220J | | • | 3,C615,C705-C707 | CKSQYF103Z50 |
| | L403 | | LAU270J | | • | 0,C720,C722,C767 | CKSQYF103Z50 |
| | L831,L881 | 1 | LAU470J | | • | 3,C830-C833,C988 | CKSQYF103Z50 |
| | L803 | | LAU820J | | C991 | ,0000-0000,0000 | CKSQYF103Z50 |
| | L701 | | LAU8R2J | | | | |
| | L811 | | LFA220J | | C102,C103 | 3,C203,C206,C209 | CKSQYF104Z25 |
| | E011 | | LI AZZOO | | C211-C216 | 5,C218,C220,C222 | CKSQYF104Z25 |
| 0404 | 0:7050 | | | | C236,C238 | 3,C241,C247 | CKSQYF104Z25 |
| CAPA | CITORS | i | | | C249,C250 |),C252,C265,C266 | CKSQYF104Z25 |
| | C845 | | CCSQCH100D50 | | C282,C292 | 2,C301-C303,C305 | CKSQYF104Z25 |
| | C745,C88 | :1 | CCSQCH101J50 | | | | |
| | C829 | | CCSQCH120J50 | | C307-C309 | 3,C315,C316,C321 | CKSQYF104Z25 |
| | C287,C84 | 0 | CCSQCH150J50 | | C601,C603 | 3,C608,C610,C612 | CKSQYF104Z25 |
| | C352 | | CCSQCH181J50 | | C616,C618 | 3,C621,C629,C642 | CKSQYF104Z25 |
| | | | | | C709,C731 | ,C761,C762 | CKSQYF104Z25 |
| | C351 | | CCSQCH200J50 | | C768,C769 | ,C812,C821,C822 | CKSQYF104Z25 |
| | C224,C23 | 1,C234,C242,C245 | CCSQCH220J50 | | | | |
| | C310,C31 | 3 | CCSQCH220J50 | | C824-C826 | 6,C835-C839,C841 | CKSQYF104Z25 |
| | C627,C72 | 3,C872-C874,C899 | CCSQCH221J50 | | C843,C846 | S-C848,C851,C853 | CKSQYF104Z25 |
| | C744 | | CCSQCH240J50 | | C861,C863 | 3,C865,C902,C904 | CKSQYF104Z25 |
| | | | | | C932,C934 | ,C936,C938,C984 | CKSQYF104Z25 |
| | C882 | | CCSQCH270J50 | | C986 | | CKSQYF104Z25 |
| | C261,C41 | 5 | CCSQCH330J50 | | | | |
| | C235,C24 | 6,C314,C765 | CCSQCH390J50 | | C699 | | CKSQYF104Z50 |
| | C414 | | CCSQCH391J50 | | C22,C28,C | 3 | CKSQYF473Z25 |
| | C402,C63 | 1,C632,C641,C827 | CCSQCH470J50 | | C407 | | CQMA102J50 |
| | | | | | C405,C701 | | CQMA103J50 |
| | C724 | | CCSQCH471J50 | | C711,C712 | 2,C715 | CQMA473J50 |
| | C624 | | CCSQCH4R0C50 | | | | |
| | C233,C24 | 4,C312,C620,C897 | CCSQCH560J50 | | C903 | (47µF/10V) | RCH1139 |
| | C413 | | CCSQCH561J50 | | VC651 | (20pF) | VCM-008 |
| | C763 | | CCSQCH5R0C50 | | VC451 | (45pF) | VCM1002 |
| | C232.C24 | 3,C311,C412 | CCSQCH6R0D50 | BECH | STORS | | |
| | C628,C70 | , | CEANP100M25 | ILO | | D074 D040 | DN4/400075D0D |
| | C606 | | CEANP1R0M50 | | • |),R871,R618 | RN1/10SC75R0D |
| | C604 | | CEANP2R2M50 | | R287 | • | RN1/10SE1001D |
| | C770 | | CEAT100M50 | | R731,R733 | \$ | RN1/10SE1302D |
| | | | | | R765 | | RN1/10SE1602D |
| | C288,C98 | 3,C985 | CEAT101M10 | | R843 | | RN1/10SE1801D |
| | C713 | | CEAT1R0M50 | | D044 | | DNH/40CE0004D |
| | C626,C71 | 4,C721 | CEAT220M50 | | R841 | D704 D044 | RN1/10SE2201D |
| | C262,C40 | 6 | CEAT2R2M50 | | , | 2,R734,R844 • | RN1/10SE2702D |
| | C834 | | CEAT330M16 | | R826,R857 | | RN1/10SE3301D |
| | | | | | R769 | D600 | RN1/10SE3901D |
| | C202,C21 | 7,C219,C221,C263 | CEAT470M10 | | R607,R845 | ,nouo | RN1/10SE4701D |
| | _ | 0,C291,C306,C401 | CEAT470M10 | | D004 | | DNI4/400FE004D |
| | • | 7,C609,C611,C614 | CEAT470M10 | | R284 | <u>.</u> | RN1/10SE5601D |
| | • | 4,C732,C772,C783 | CEAT470M10 | | R282,R285 | | RN1/10SE9100D |
| | C931,C93 | • | CEAT470M10 | | VR261 | $(1k\Omega)$ | VCP1105 |
| | , = 2 | | | | · | 706,VR731,VR732 (2.2kΩ) | VCP1107 |
| | C264,C28 | 1,C304,C717,C823 | CEAT471M6R3 | | VR702 | $(4.7k\Omega)$ | VCP1109 |
| | C842,C84 | • | CEAT471M6R3 | | VD704 | (4000) | V/OD4444 |
| | | 8,C708,C710 | CEAT4R7M50 | | VR701 | $(10k\Omega)$ | VCP1111 |
| | C811 | - · · · · · · · · · · · · · · · · · · · | CEJA2R2M50 | | VR751,VR | , , | VCP1113 |
| | | | | | Other Resi | SIOIS | RS1/10S□□□J |
| | | | | | | | |

| Mark | No. | Description | Part No. |
|------------------|-------|------------------|--------------|
| ОТН | -RS | | |
| V 1 1 1 1 | | CD EEC CONNECTOD | E004E 064E |
| | CN103 | 6P FFC CONNECTOR | 52045-0645 |
| | JA903 | 1P PIN JACK | AKB7096 |
| | CN101 | 14P CONNECTOR | BTFN14P-3RD7 |
| | CN102 | 20P CONNECTOR | BTFN20P-3RD7 |
| | DL701 | DELAY LINE | DTF1033 |
| | 902 | 4P DIN SOCKET | VKN1078 |
| | | SCREW PLATE | VNE1948 |
| | X601 | (17.734475MHz) | VSS1059 |
| | X401 | (4.433619MHz) | VSS1090 |
| | X742 | (4.433619MHz) | VSS1091 |
| | X741 | (3.579545MHz) | VSS1092 |



CAPACITORS

1 C1101 (4700pF/AC250V) ACG7009

OTHERS

⚠ S1101 PUSH SWITCH ASG1006

6. ADJUSTMENT

6.1 ADJUSTMENT ITEMS AND LOCATION

■ Adjustment Items

[Mechanical Part]

CLD

- Tilt Offset Adjustment
- 2 Tangential Direction Angle Adjustment for Side A
- 3 Spindle Motor Centering Adjustment for Side A
- Crosstalk Check and Fine Tilt Offset Adjustment for Side A
- Focus Servo Loop Gain Adjustment
- 6 Tracking Servo Loop Gain Adjustment
- Tangential Direction Angle Adjustment for Side B
- 8 Spindle Motor Centering Adjustment for Side B
- Orosstalk Check and Fine Tilt Offset Adjustment for Side B

DVD

- RF MAX Adjustment
- DVD Jitter Adjustment

[Electricall Part]

CLDM ASSY

- (1) Video Level Adjustment
- (2) 18MHz Master Clock Adjustment

DVDM ASSY

- 1 VCO Offset Adjustment
- 2 Video Output Level Adjustment

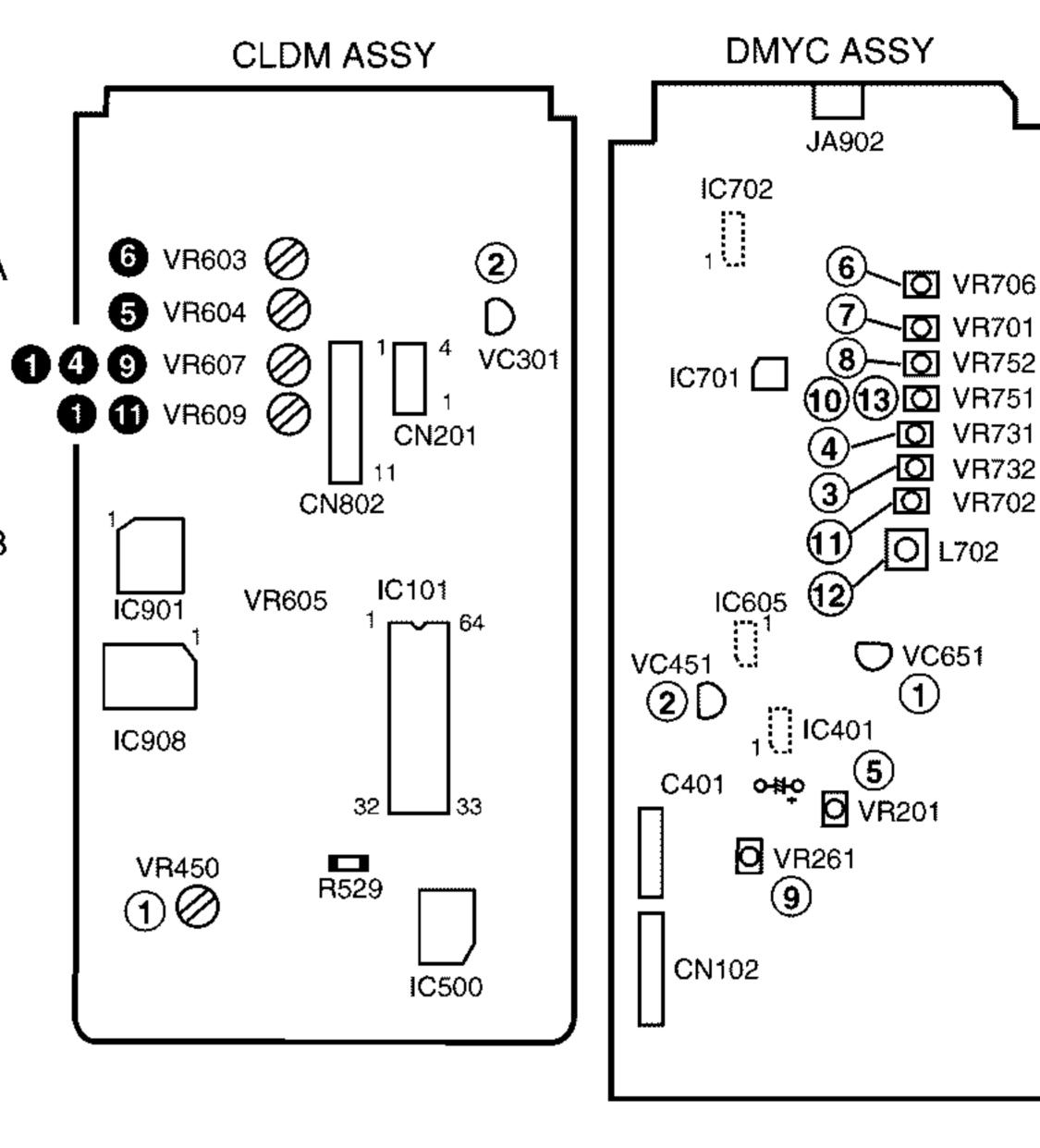
DMYC ASSY

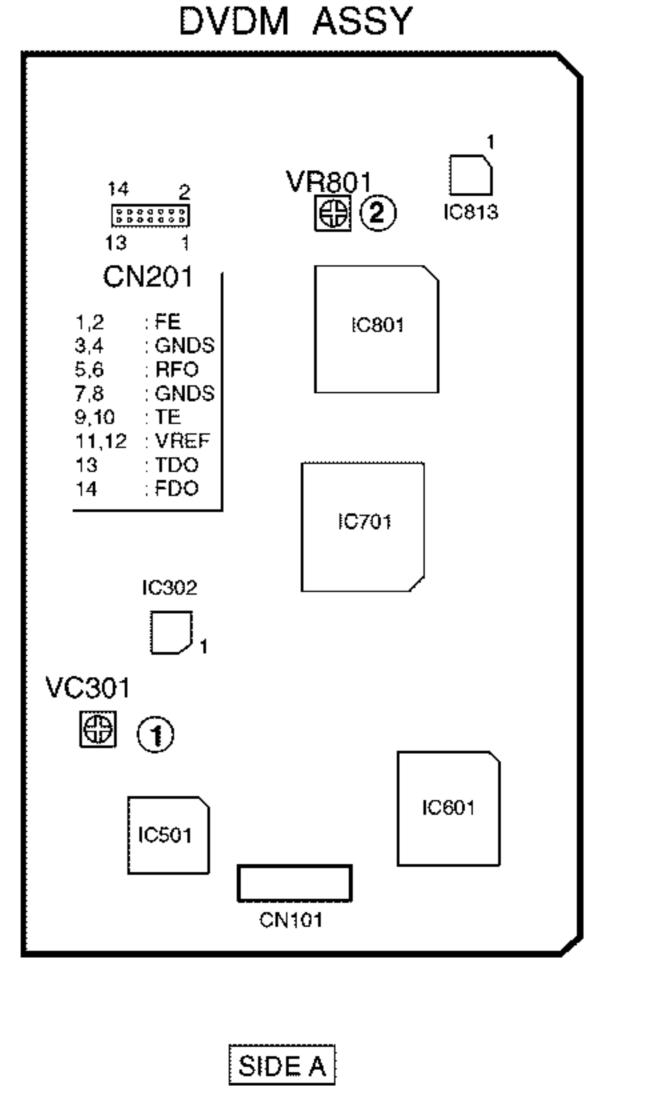
- 1 17MHz Free-run Frequency Adjustment
- 2 4.43MHz Free-run Frequency Adjustment for Y/C Separation
- 3 PAL 4.43MHz Free-run Frequency Adjustment for RGB Decoder
- 4 NTSC 3.58MHz Free-run Frequency Adjustment for RGB Decoder
- 5 NTSC Y Level Adjustment
- 6 RGB Decoder Y Level Adjustment
- 7 RGB Decoder HUE Adjustment
- (8) RGB Decoder NTSC Chroma Level Adjustment
- 9 PAL Y Level Adjustment
- (10) Coarse RGB Decoder PAL Chroma Level Adjustment
- (1) RGB Decoder PAL Delay Line Amp Gain Adjustment
- (12) RGB Decoder PAL DAT Adjustment
- (13) Fine RGB Decoder PAL Chroma Level Adjustment

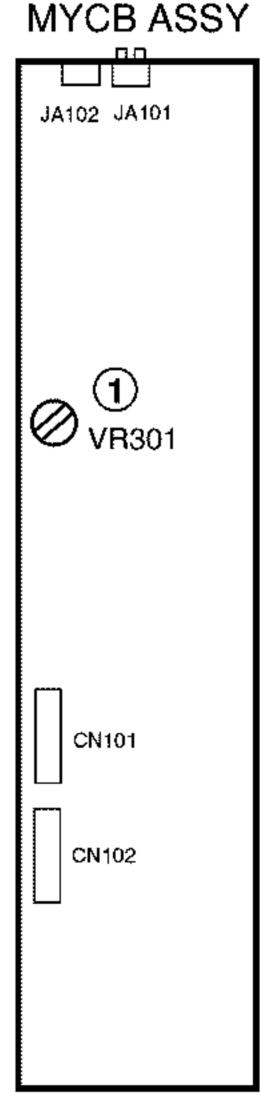
MYCB ASSY

1 Y Output Level Adjustment

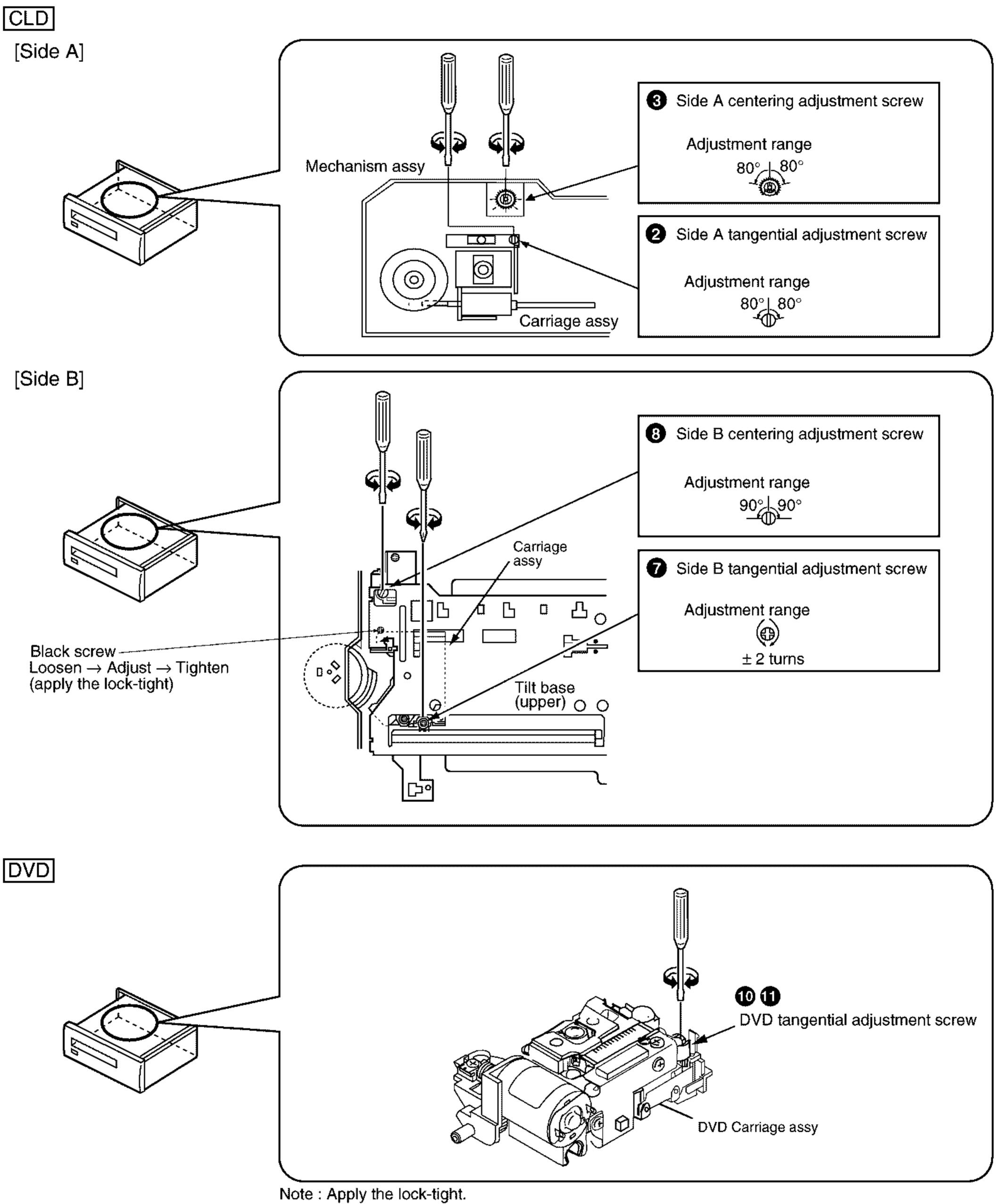
Adjustment Points (PCB Part)





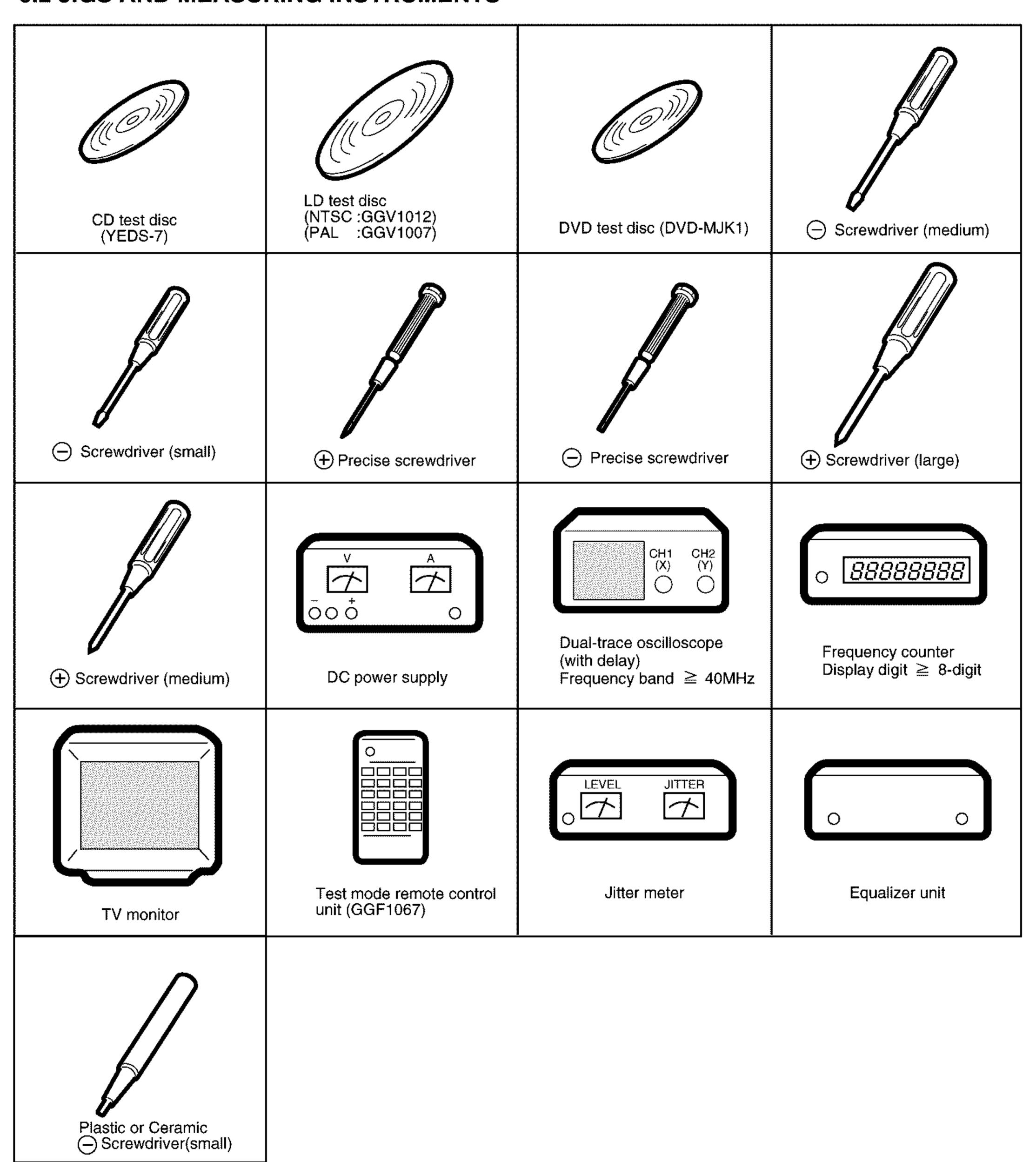


■ Adjustment Points (Mechanism Part)



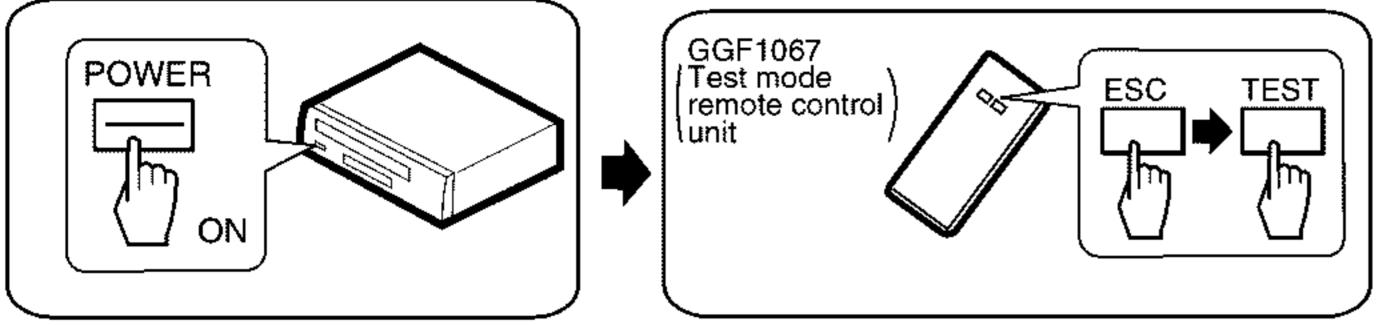
DVL-909

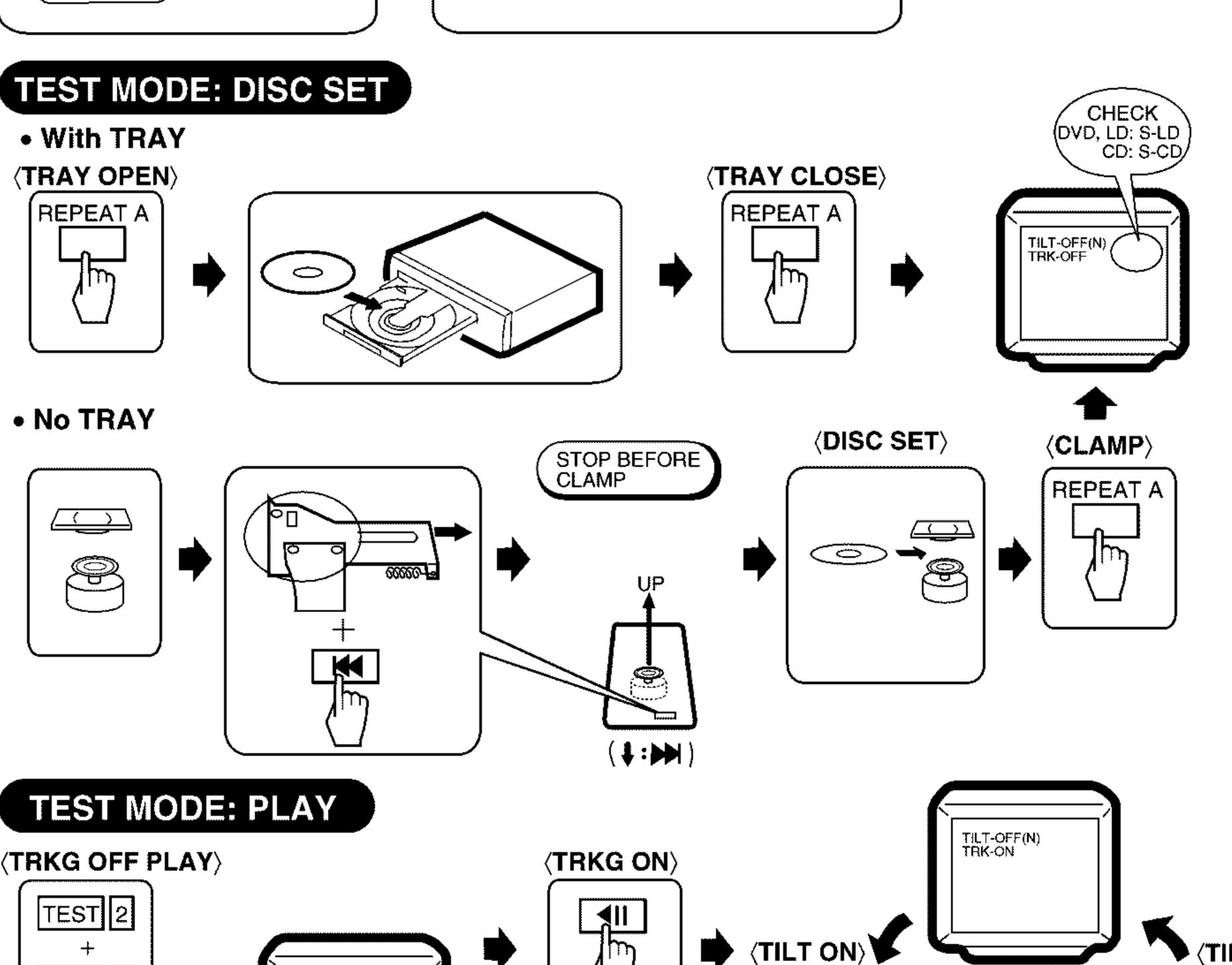
6.2 JIGS AND MEASURING INSTRUMENTS

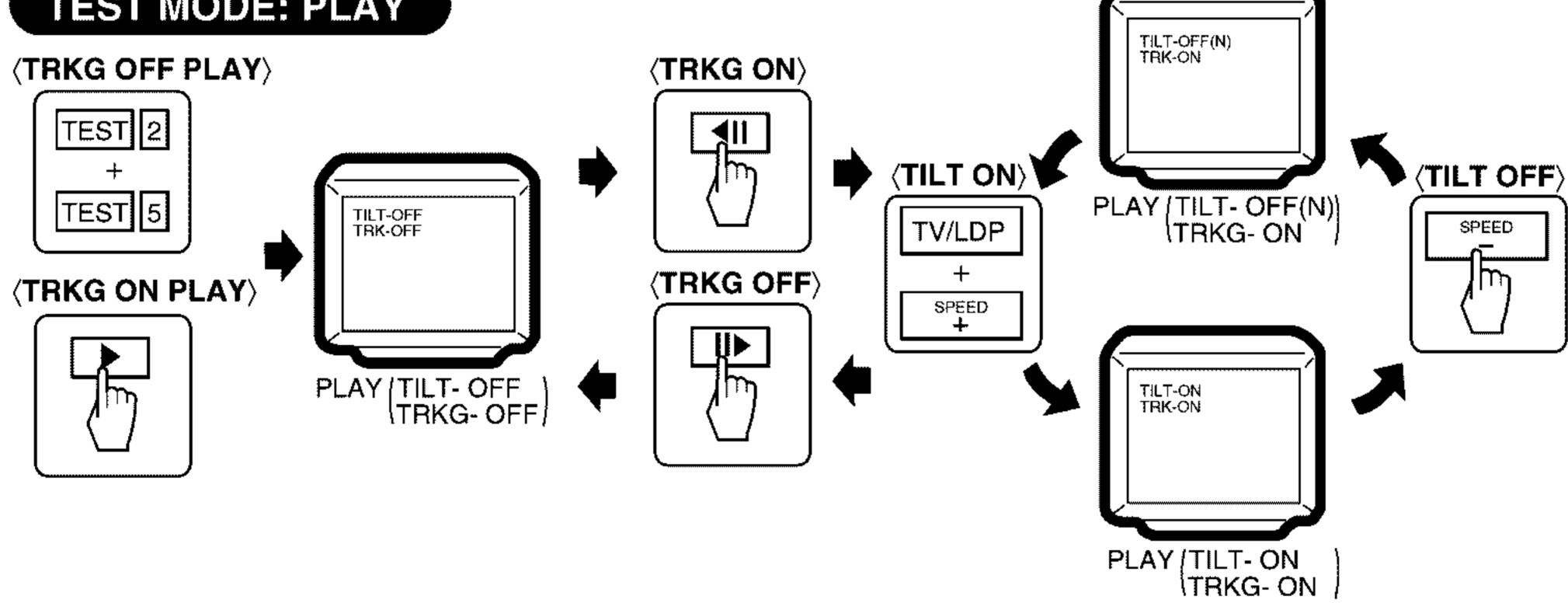


6.3 TEST MODE

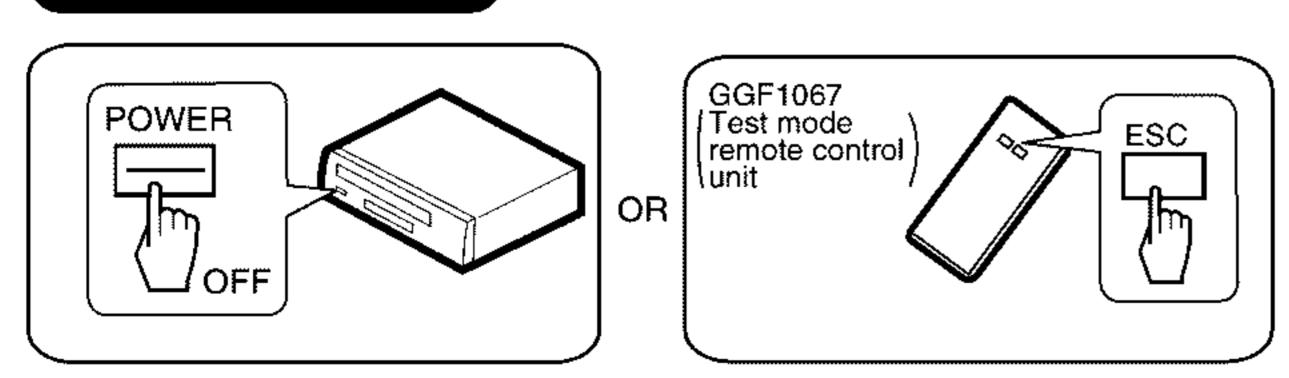
TEST MODE: ON







TEST MODE: OFF



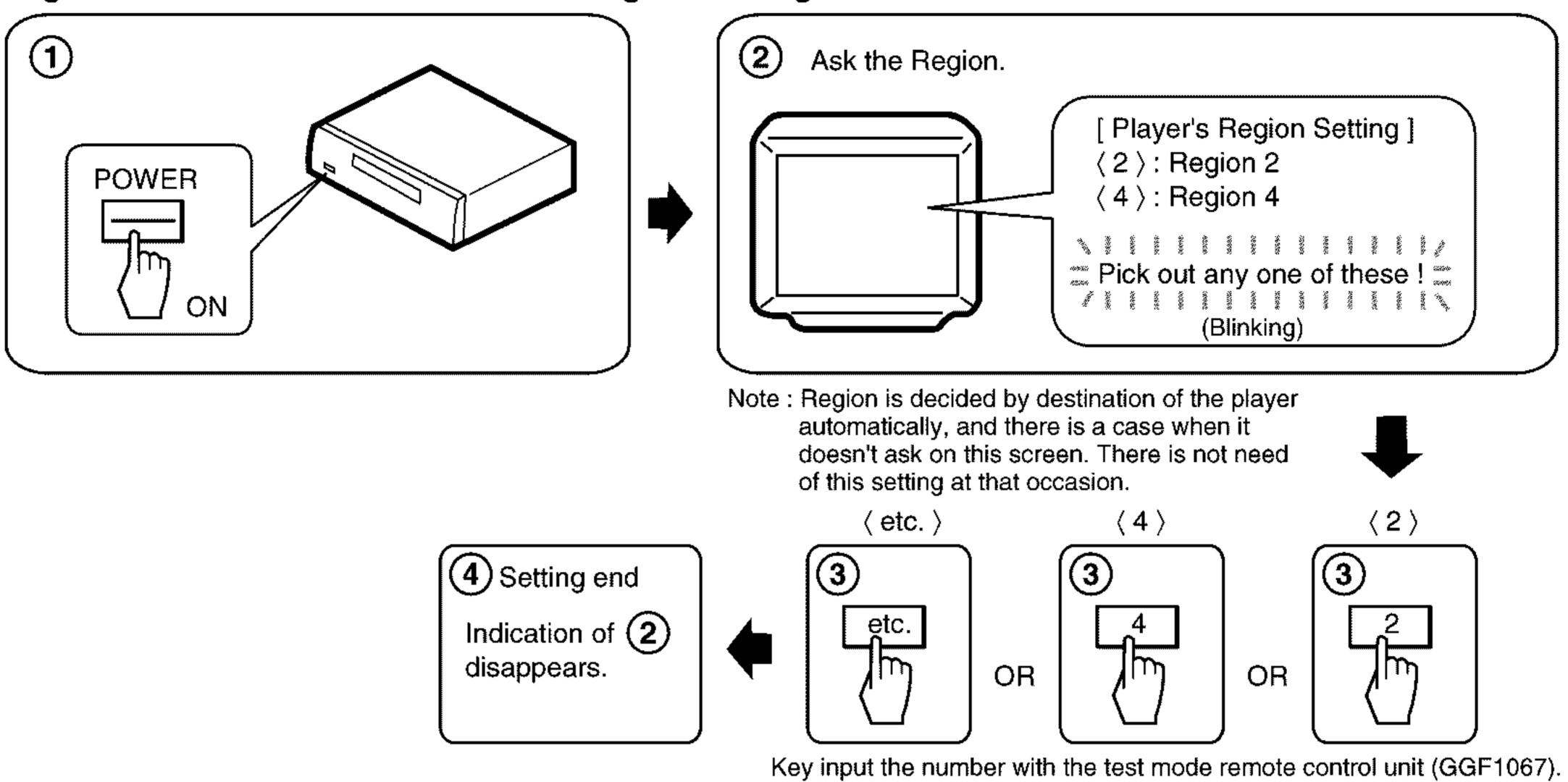
6.4 NECESSARY ADJUSTMENT POINTS

| When EXCHANGE MECHANISM ASSY PARTS | Adjustment Points |
|--------------------------------------|--|
| Exchange pickup (CLD) | 0,0,0,0,0,0,0,0 |
| | |
| Exchange pickup (DVD) | O , O |
| | |
| Exchange spindle motor | 6 ,0 |
| | |
| EXCHANGE PCB ASSY | |
| Exchange board CLDM ASSY | 0,0,5,6, |
| | |
| | Note : ① and ② are adjusted already. |
| Exchange board DVDM ASSY | O , O |
| | |
| : | Note: ① and ② are adjusted already. |
| When replacing the FLASH MEMORY (IC) | C603) on the DVDM Assy, follow the "6.5 REGION SETTING". |
| Exchange board | |
| DMYC ASSY | |
| | |
| | Note: 10-13 are adjusted already. |
| Exchange board MYCB ASSY | |
| | 1000 (Care Care Care Care Care Care Care Care |

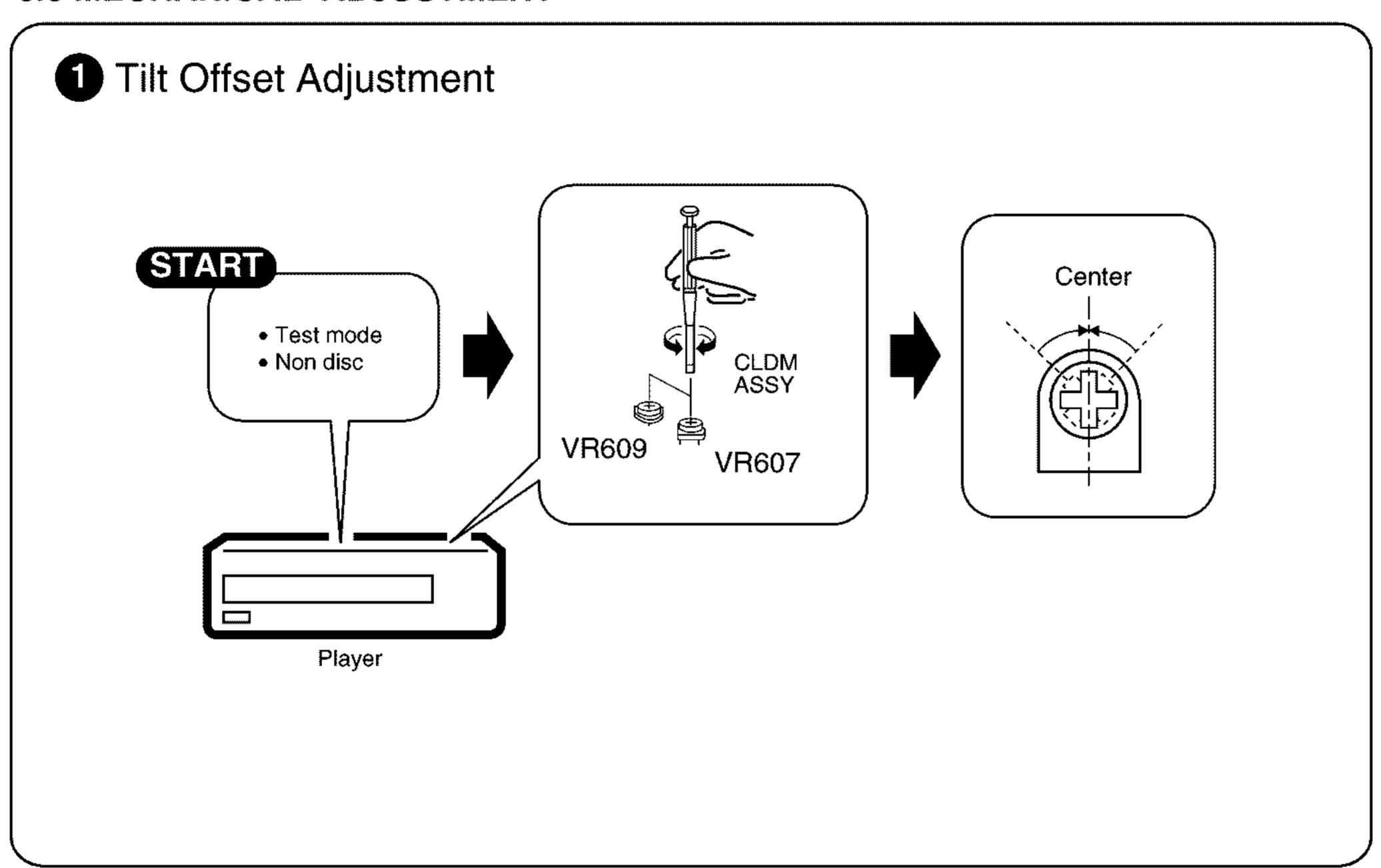
Note: 1) is adjusted already.

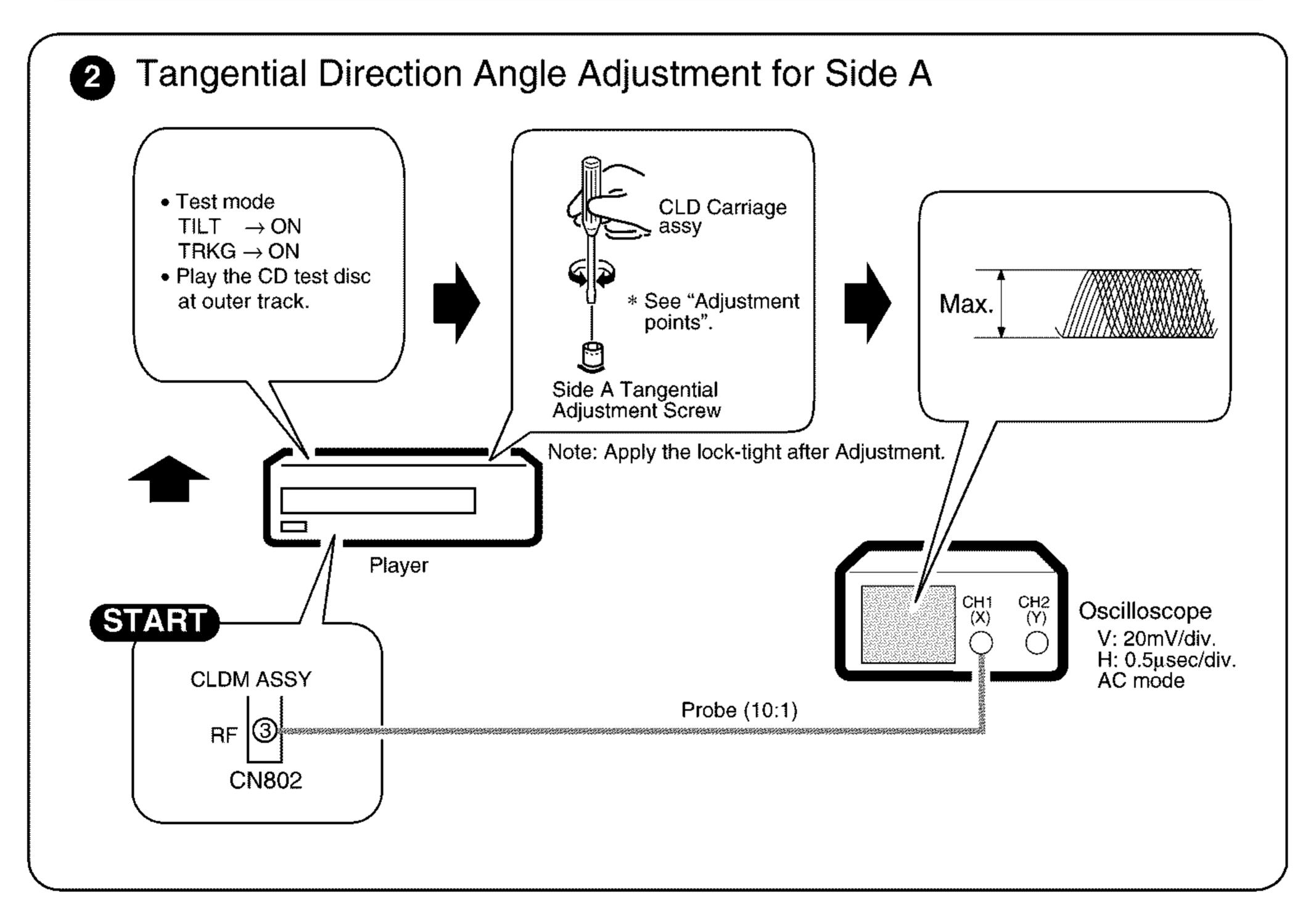
6.5 REGION SETTING

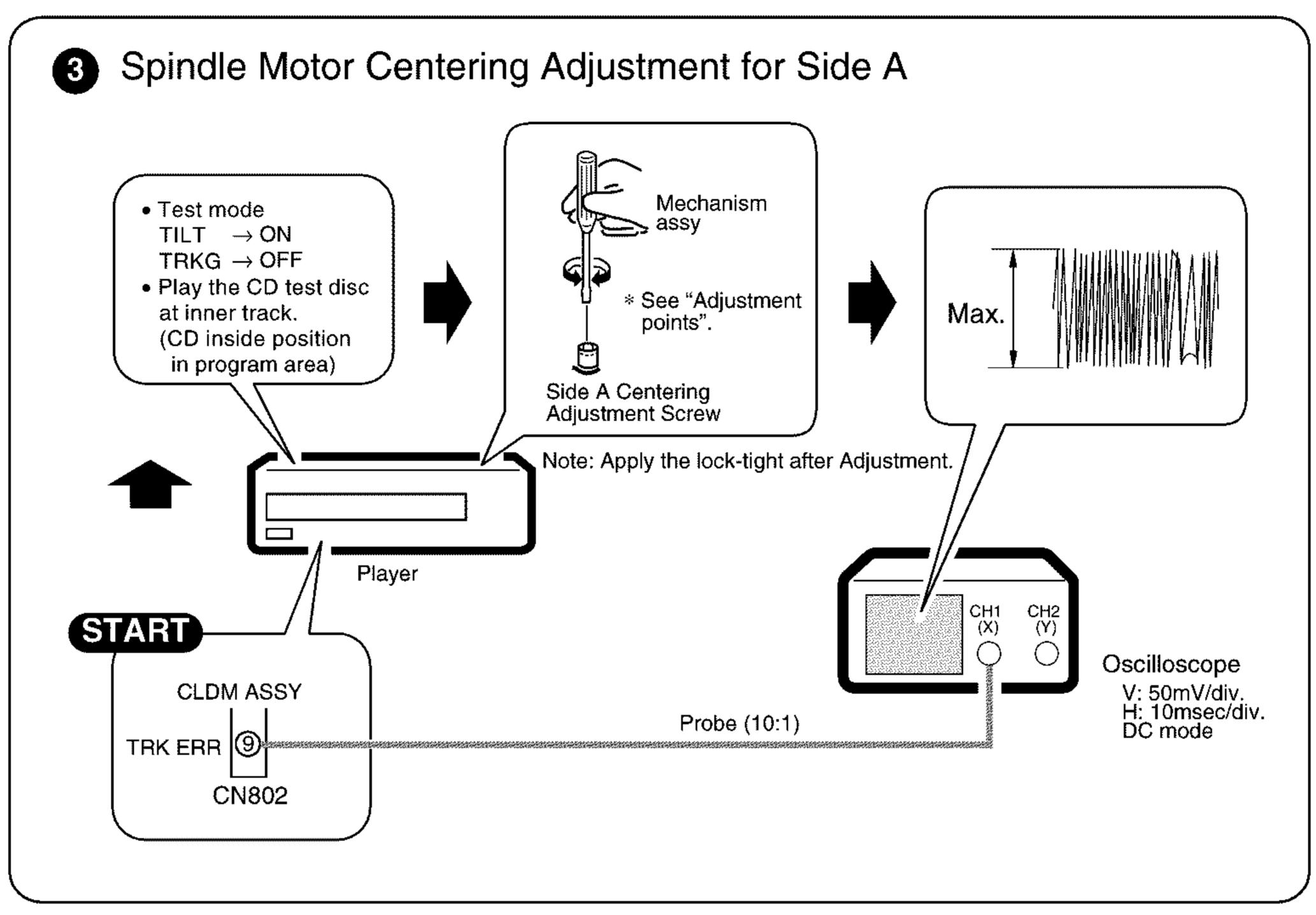
Perform this operation after confirming the region number of each destination on the cover. Region number decided once can be changed never again.

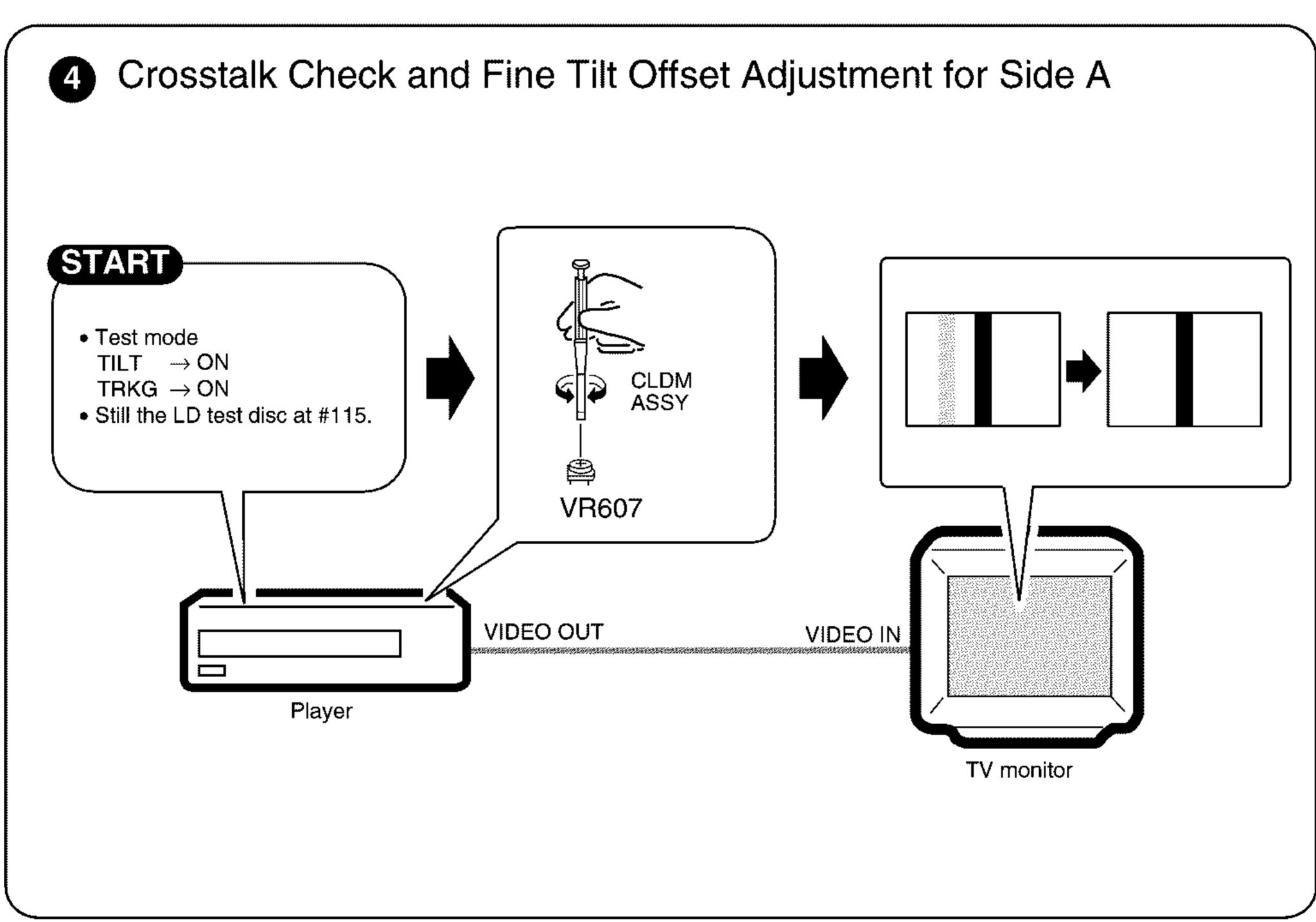


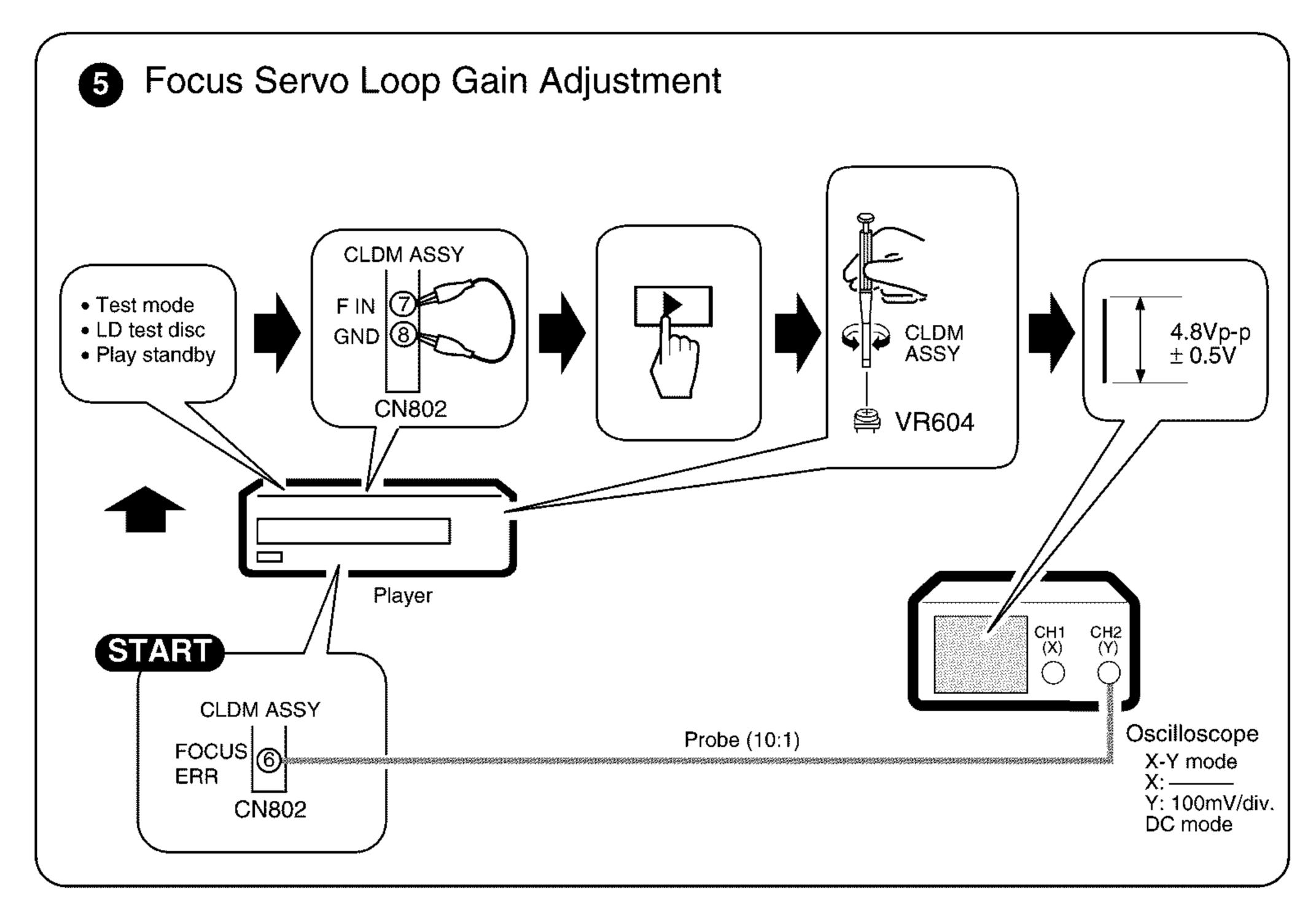
6.6 MECHANICAL ADJUSTMENT

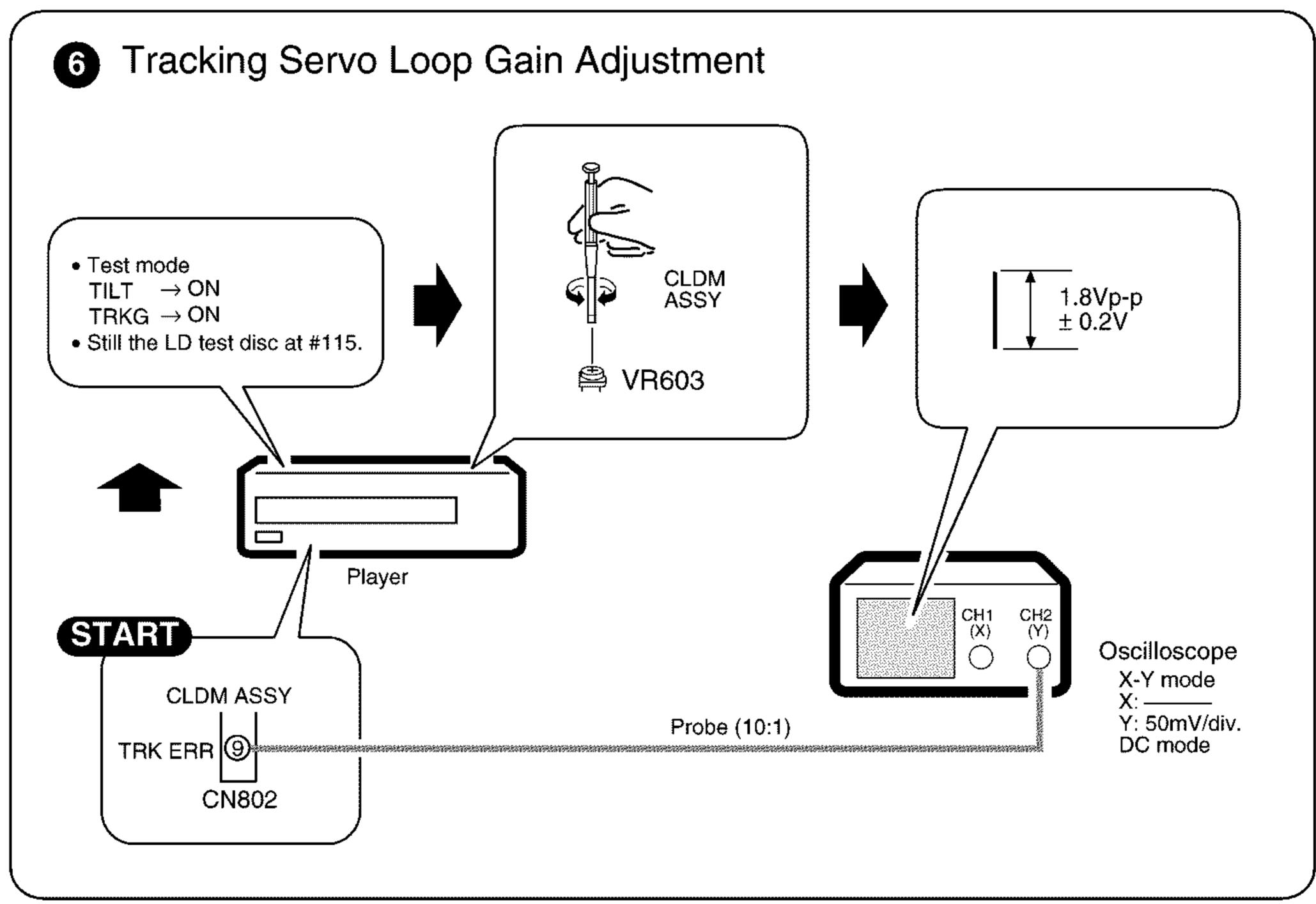


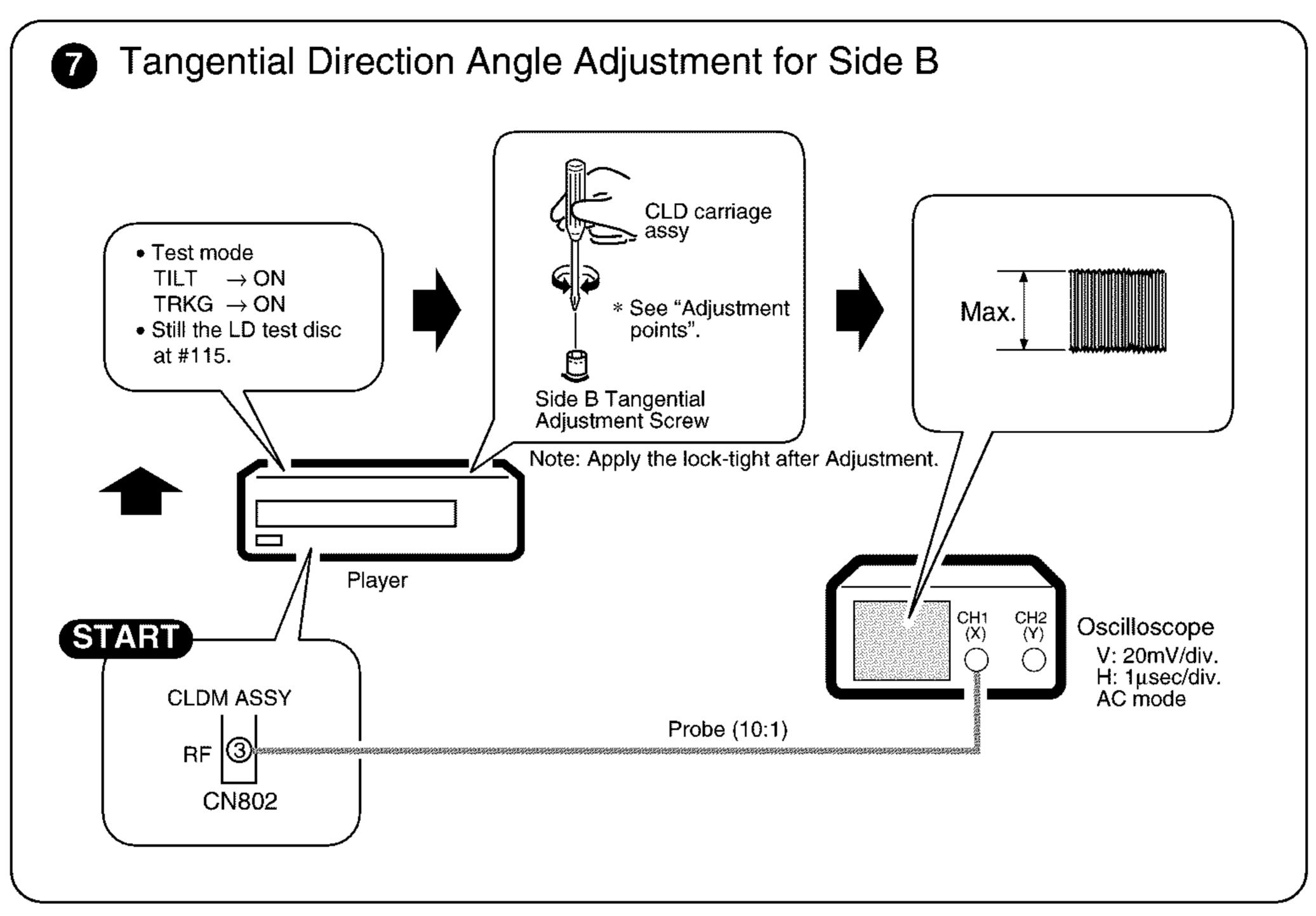


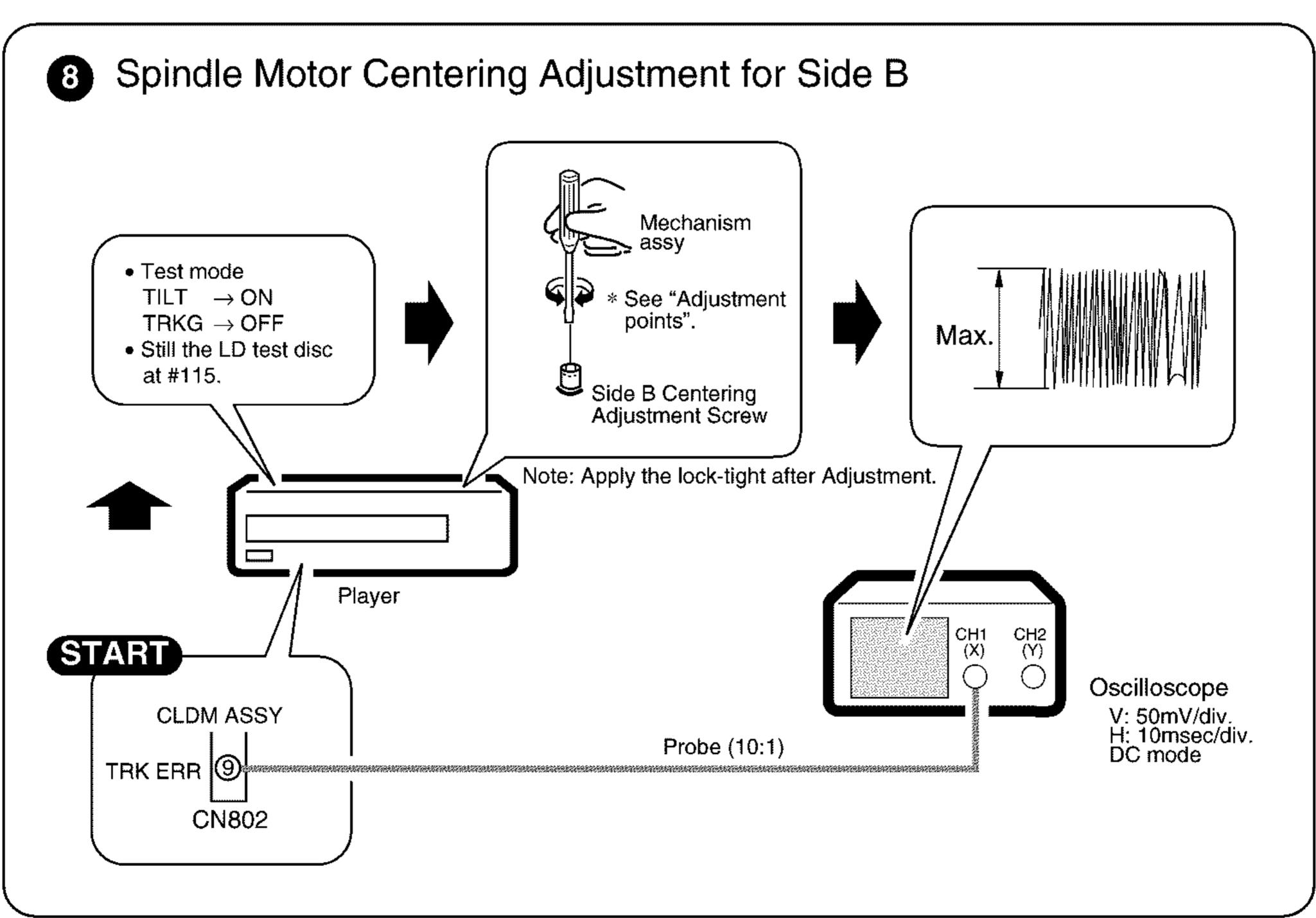


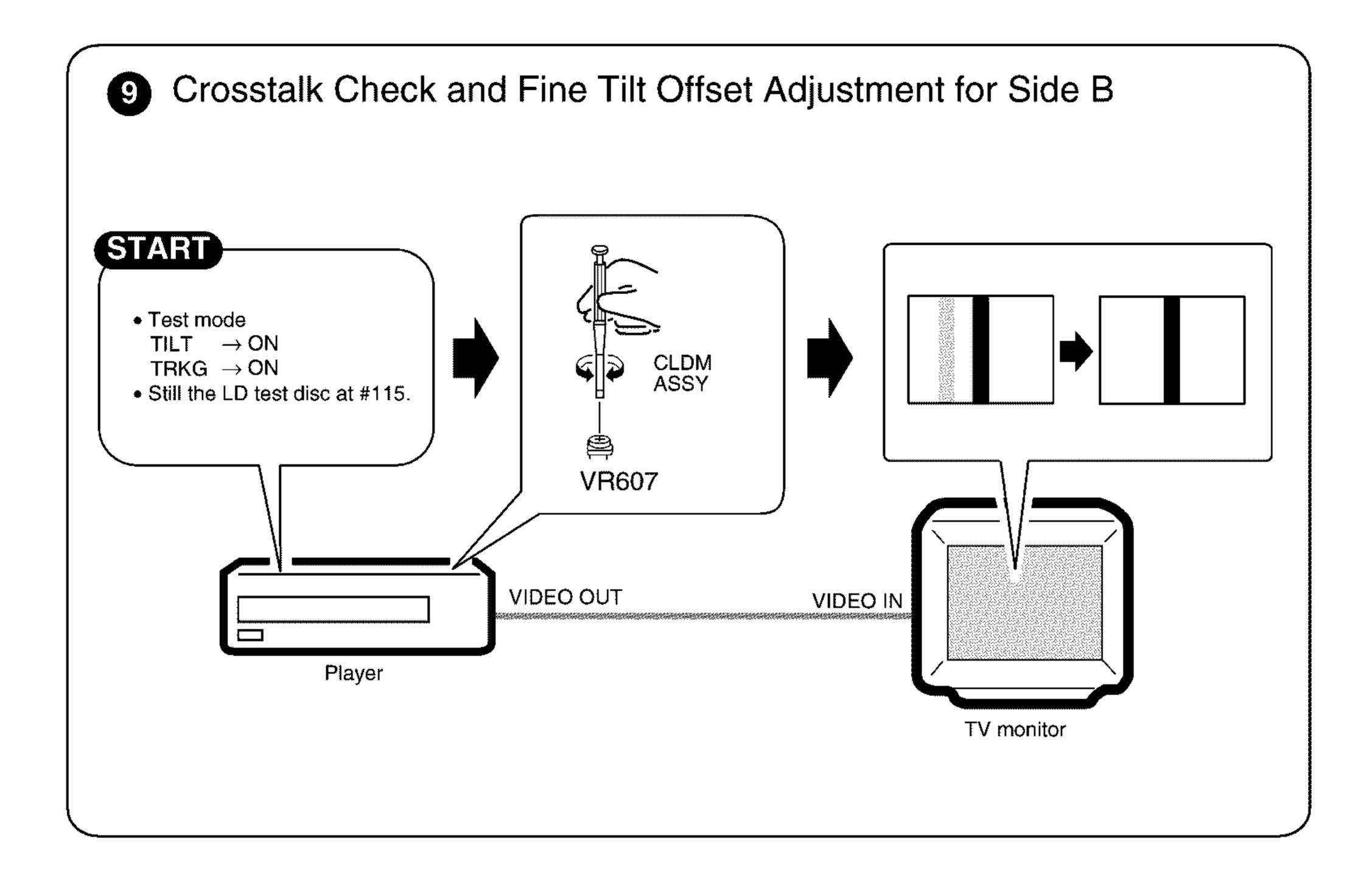


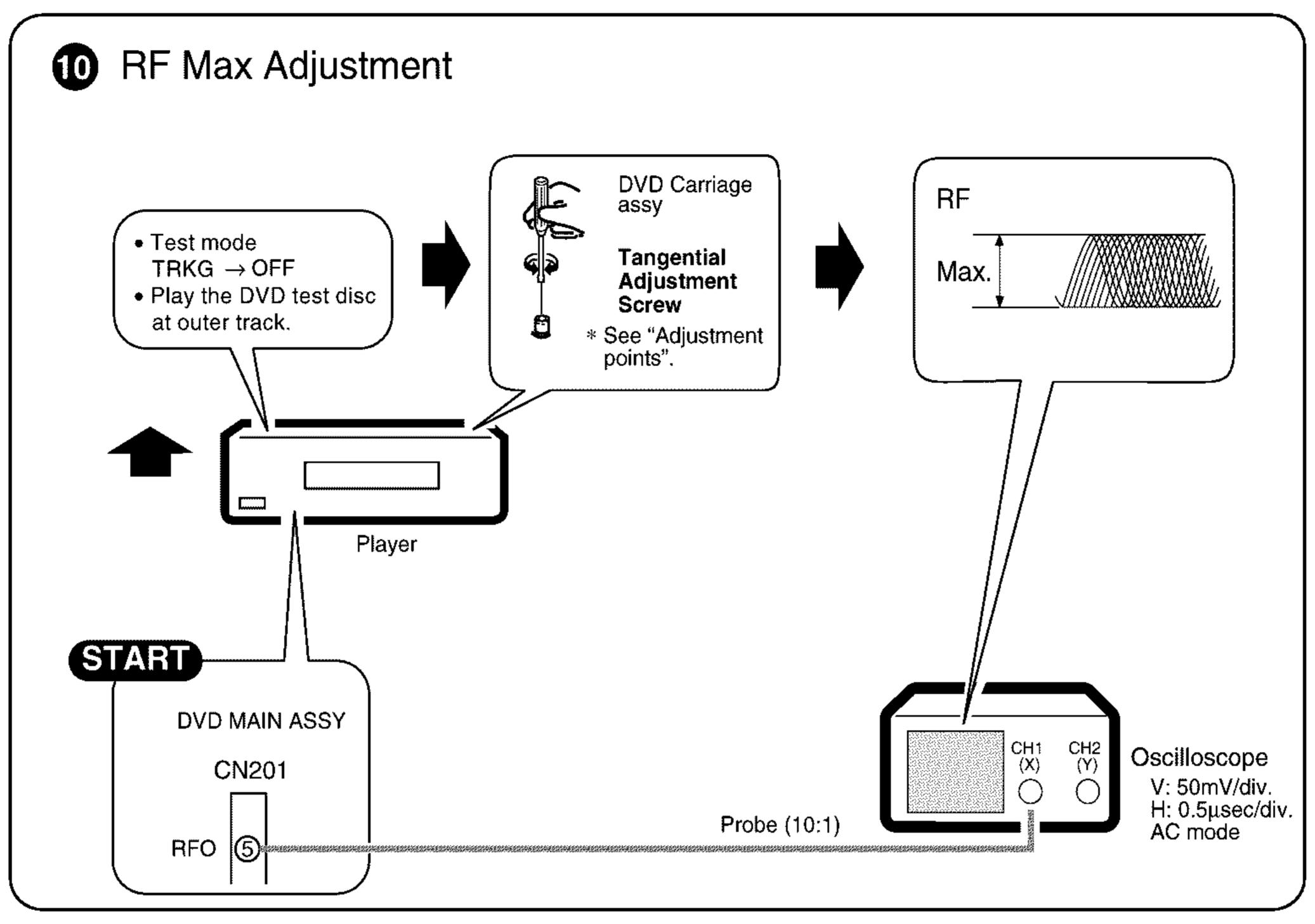


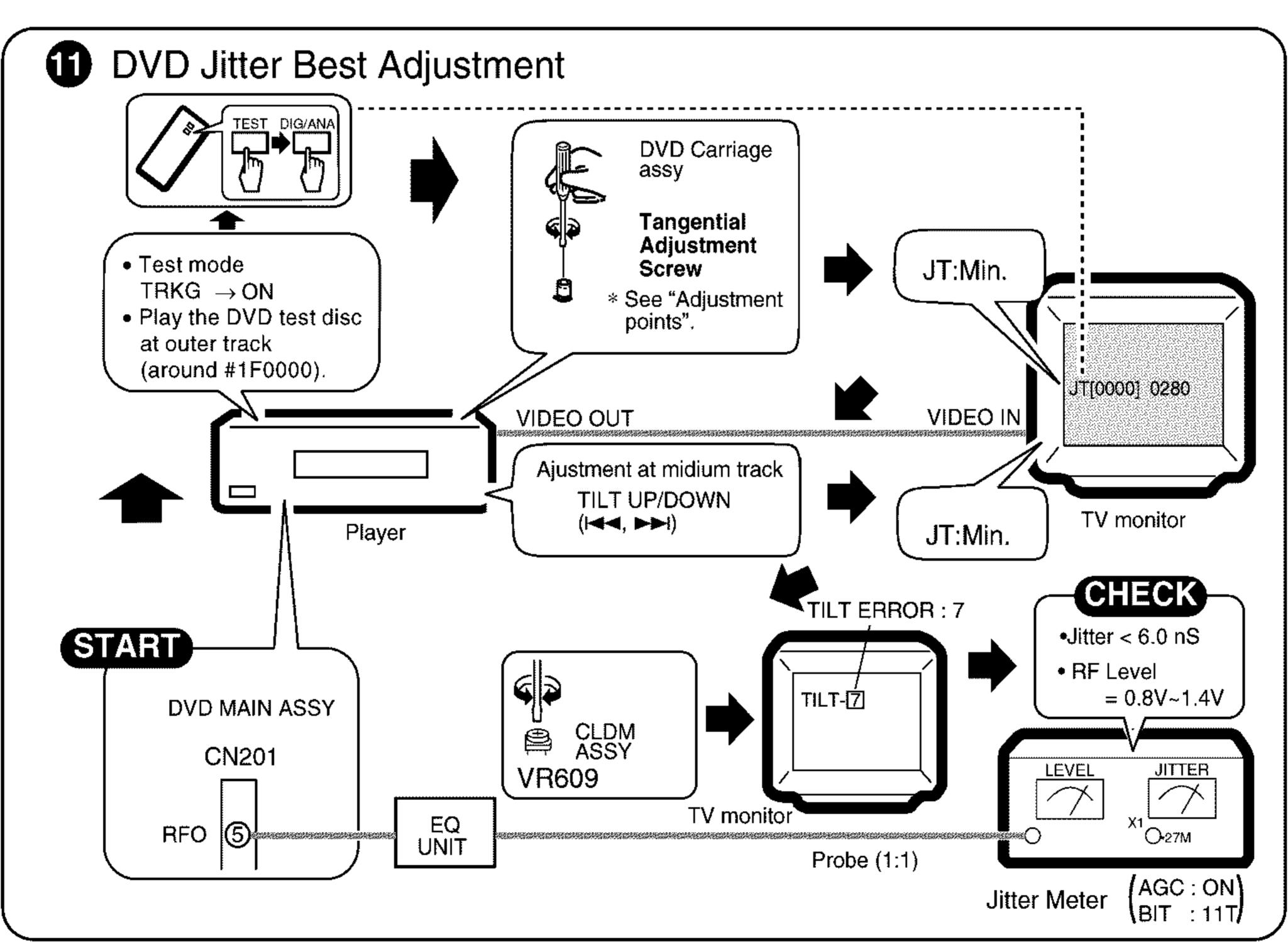




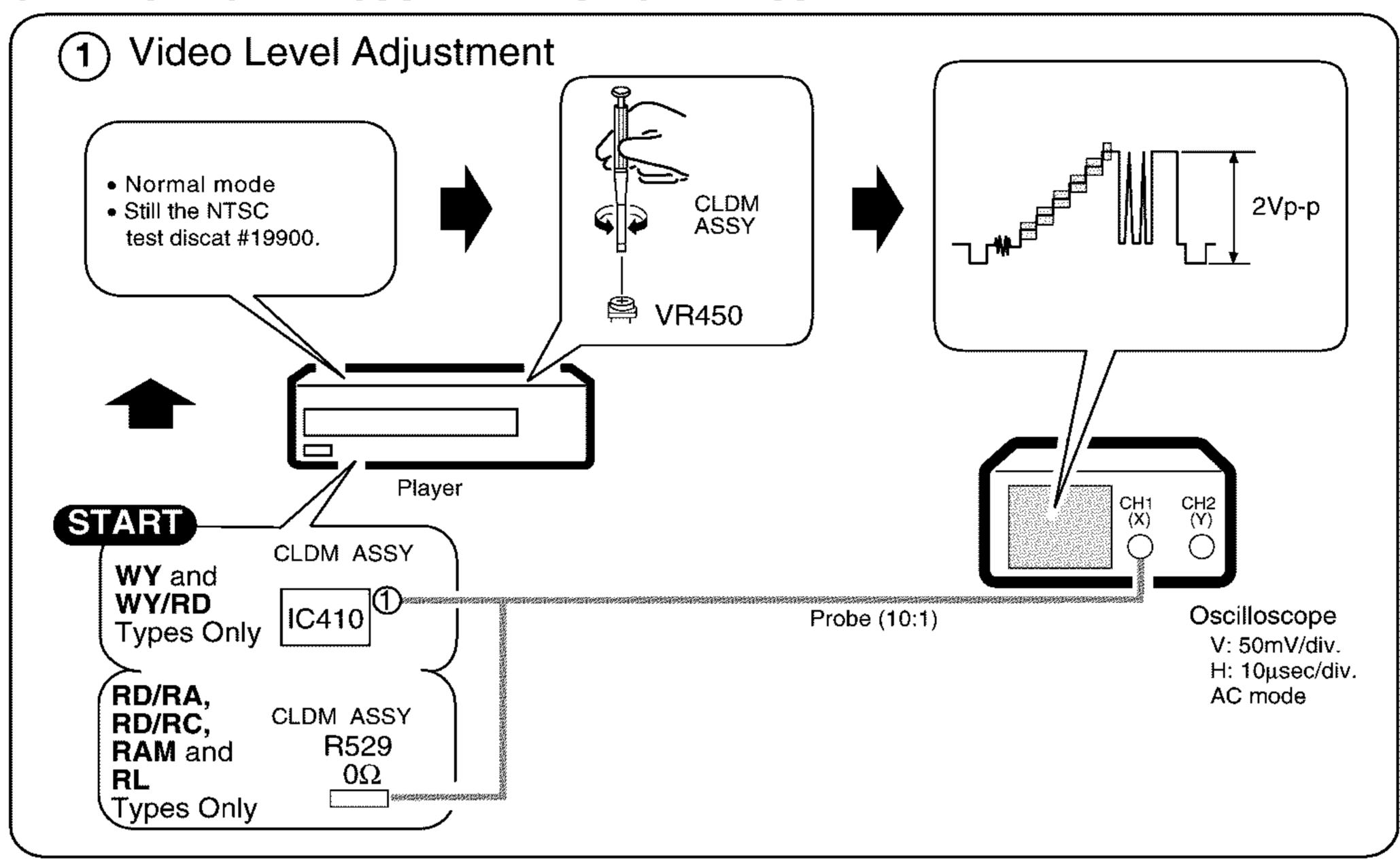


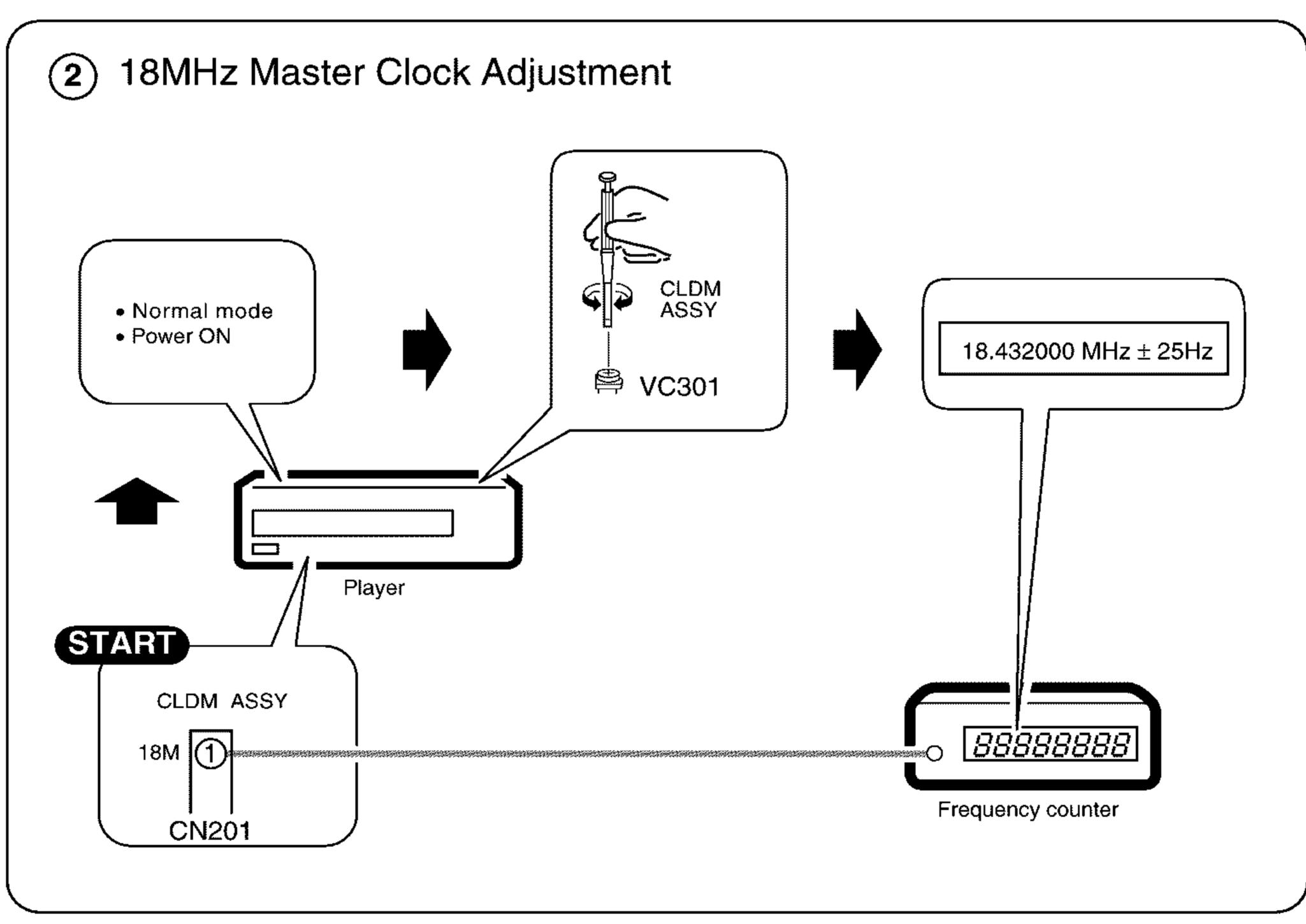




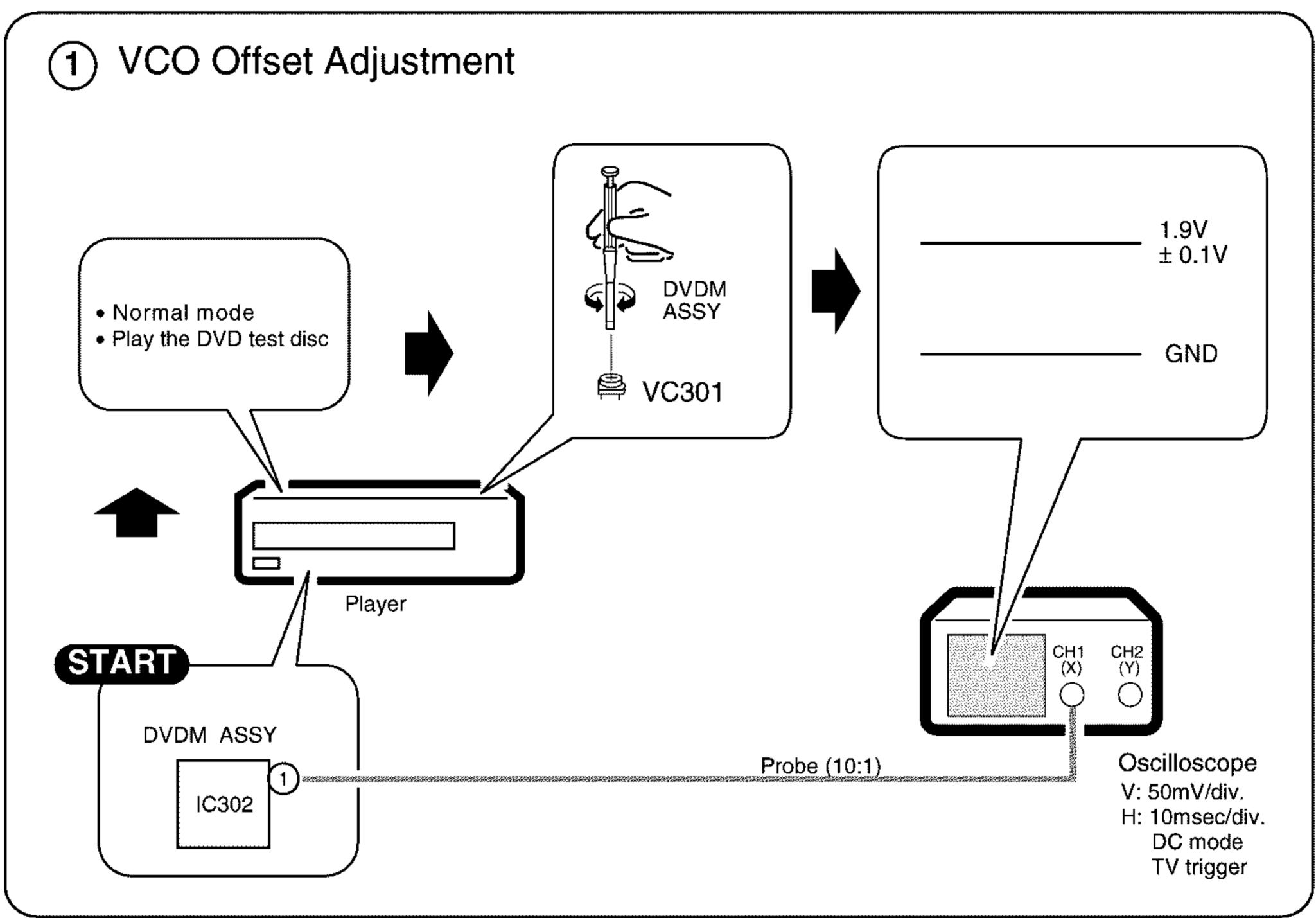


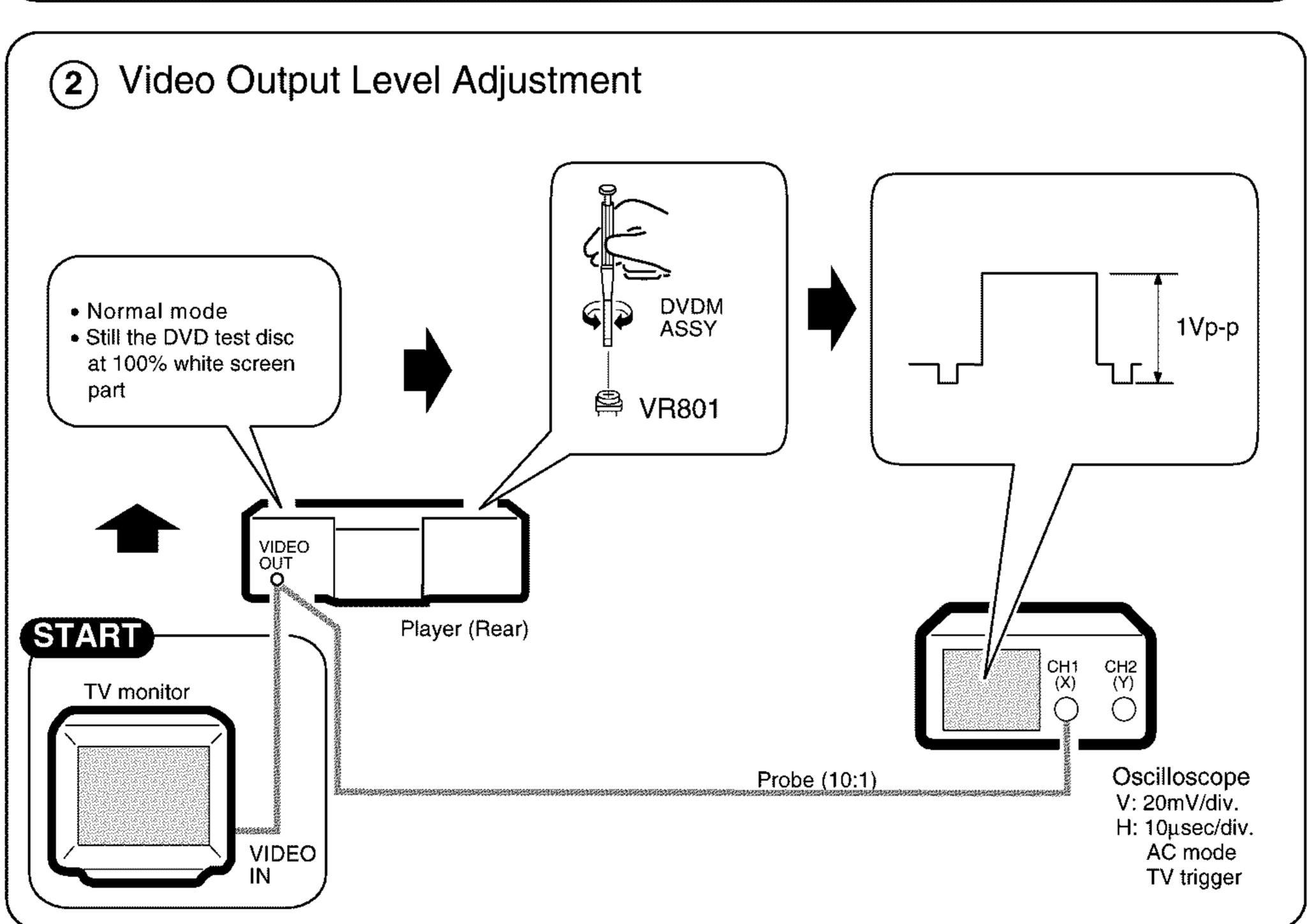
6.7 ELECTRICAL ADJUSTMENT FOR CLDM ASSY



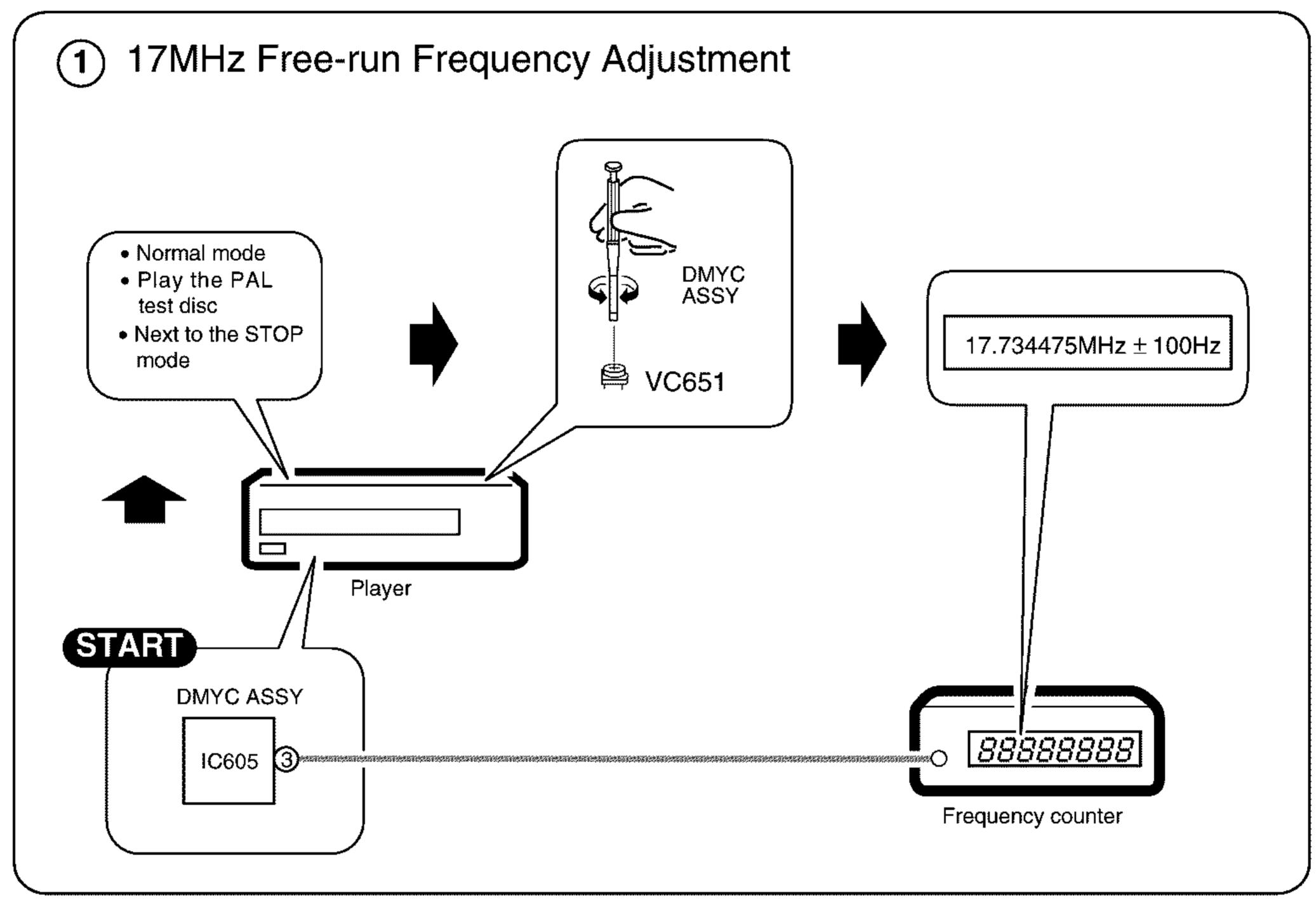


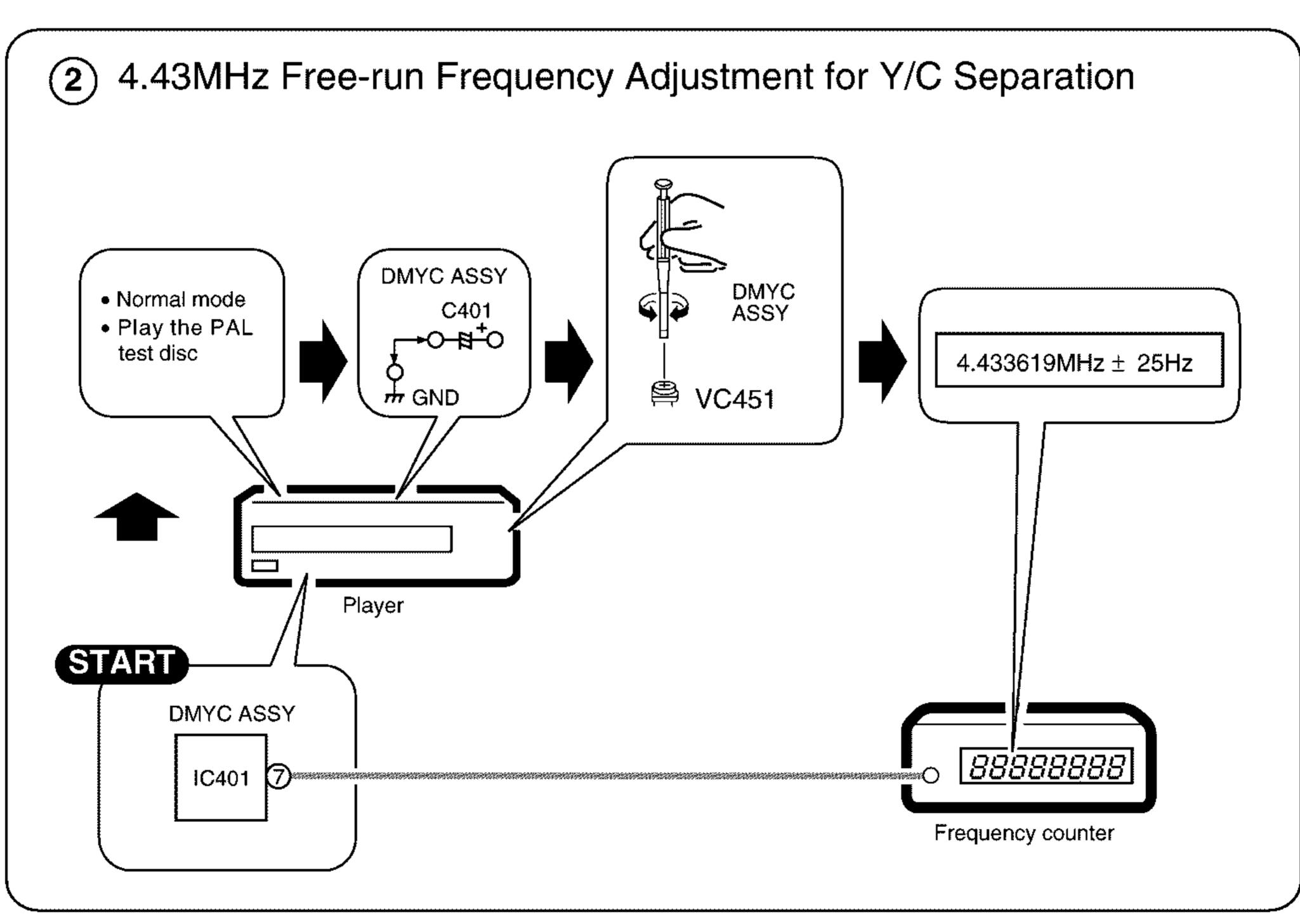
6.8 ELECTRICAL ADJUSTMENT FOR DVDM ASSY

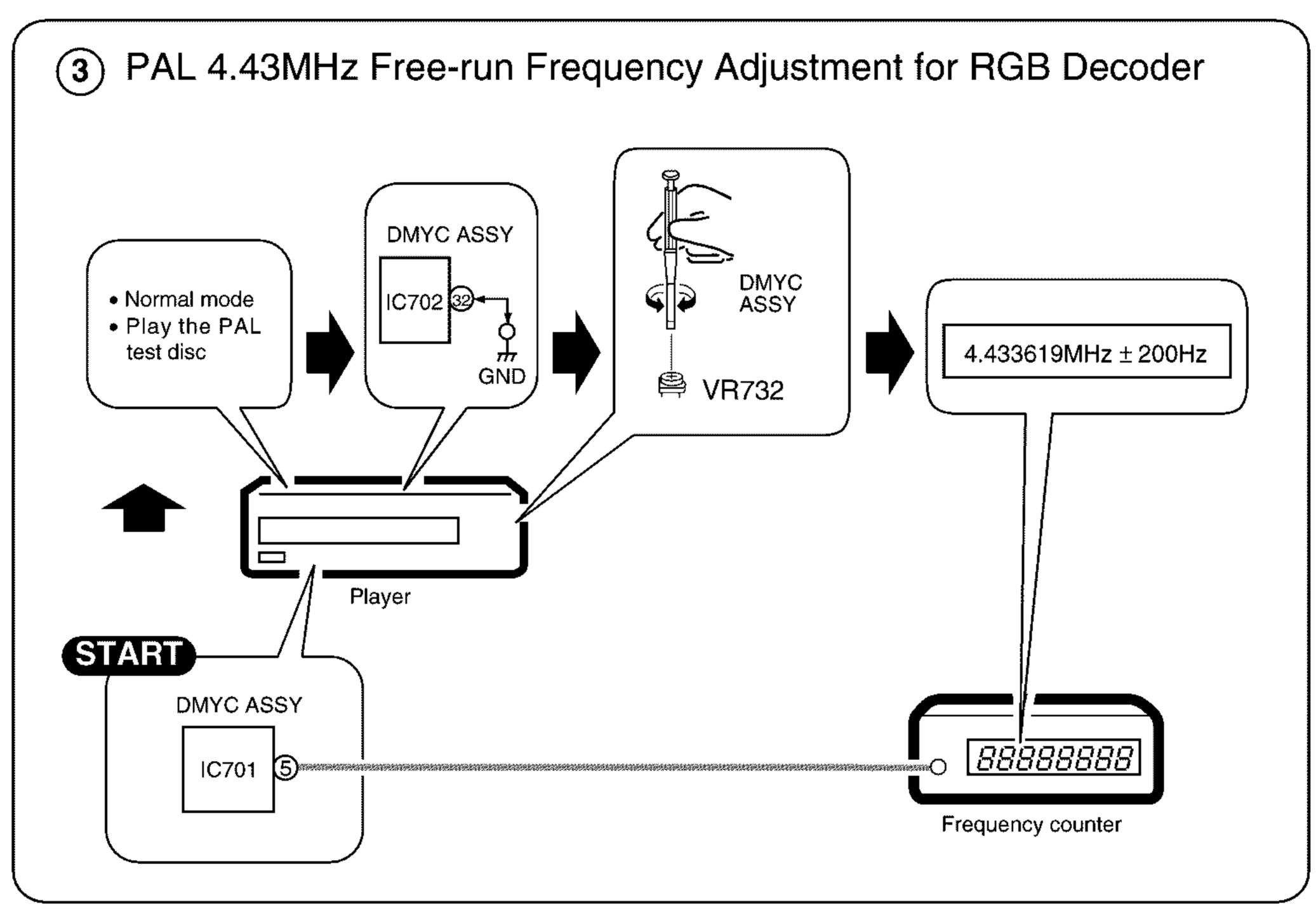


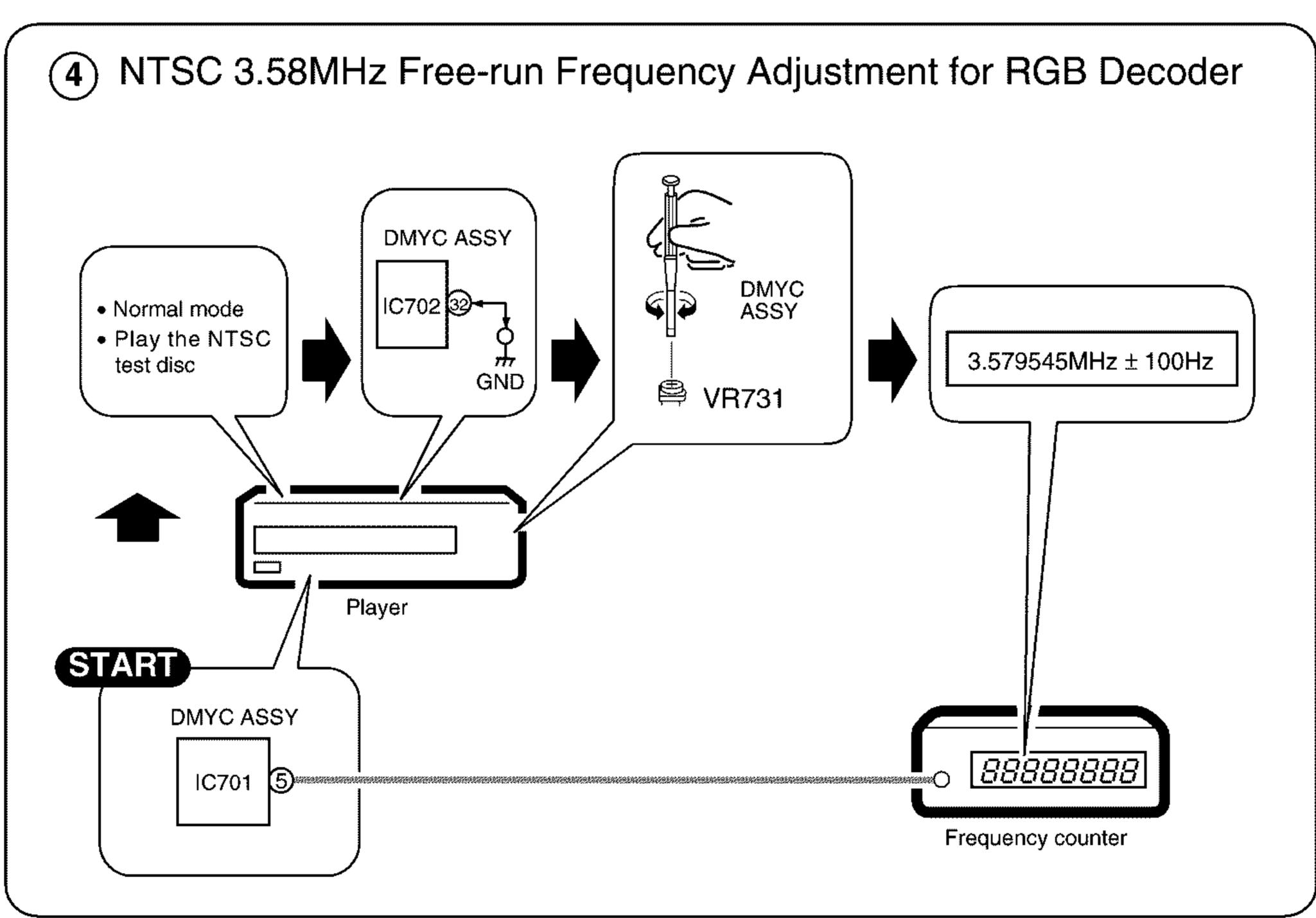


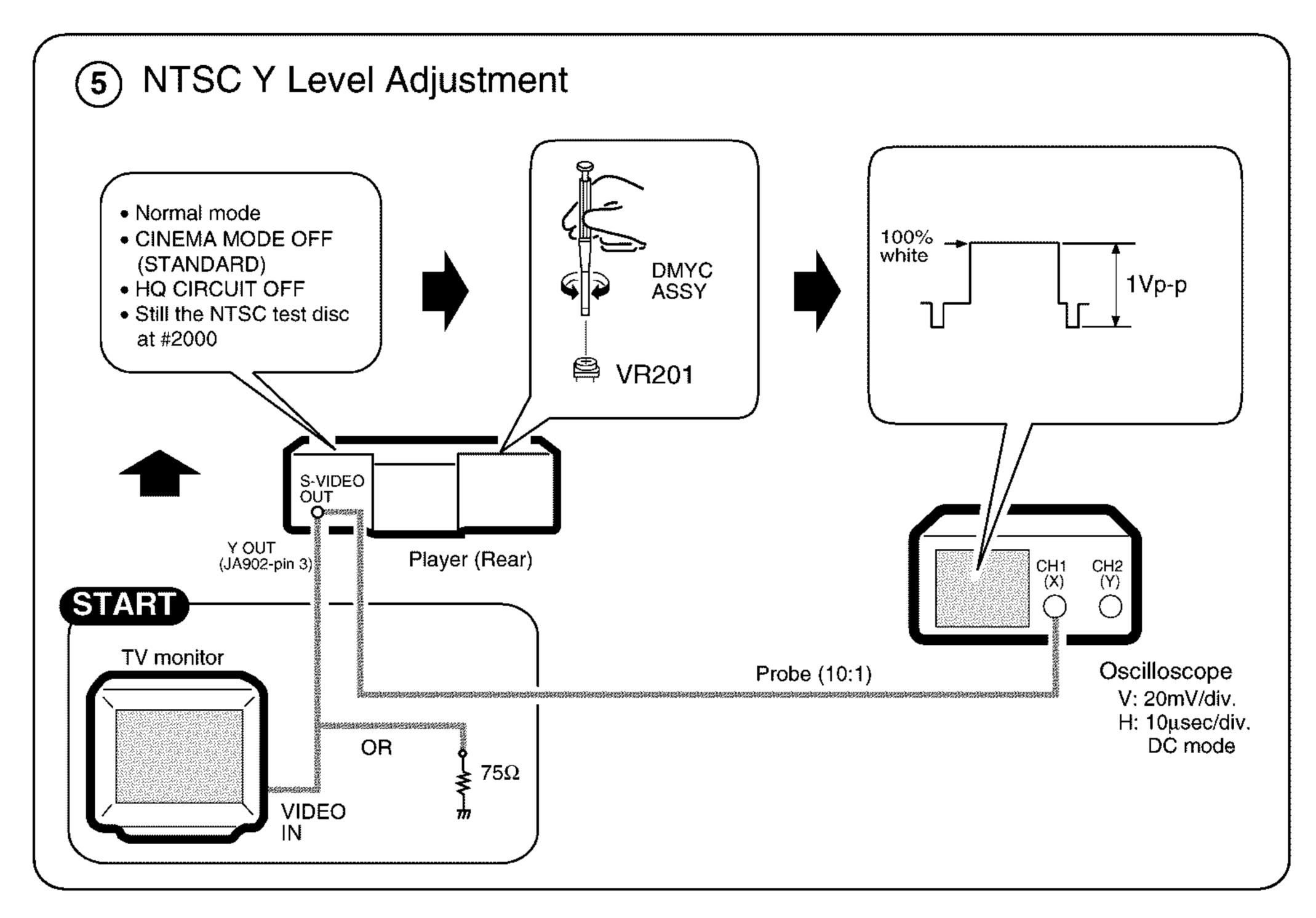
6.9 ELECTRICAL ADJUSTMENT for DMYC ASSY

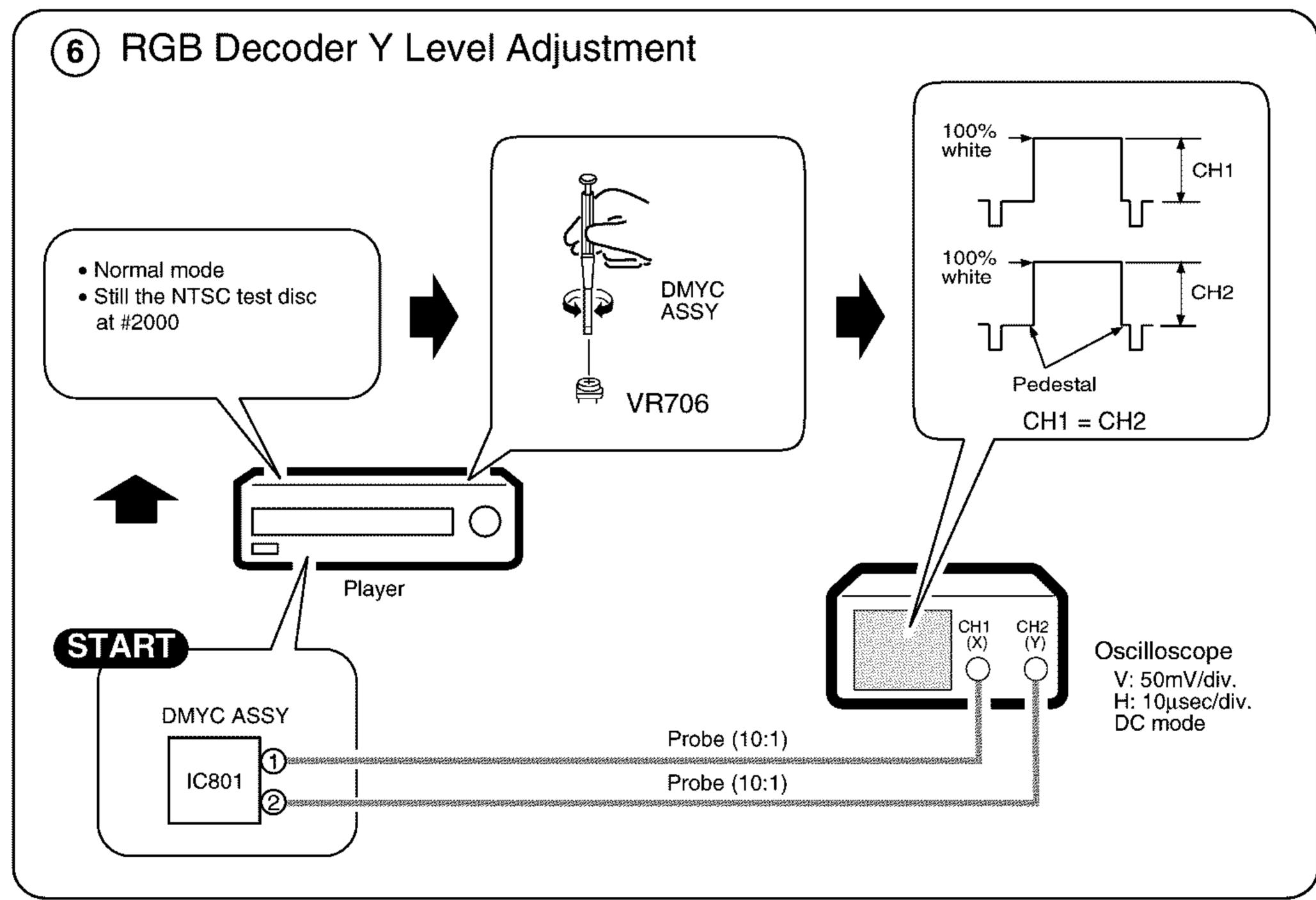


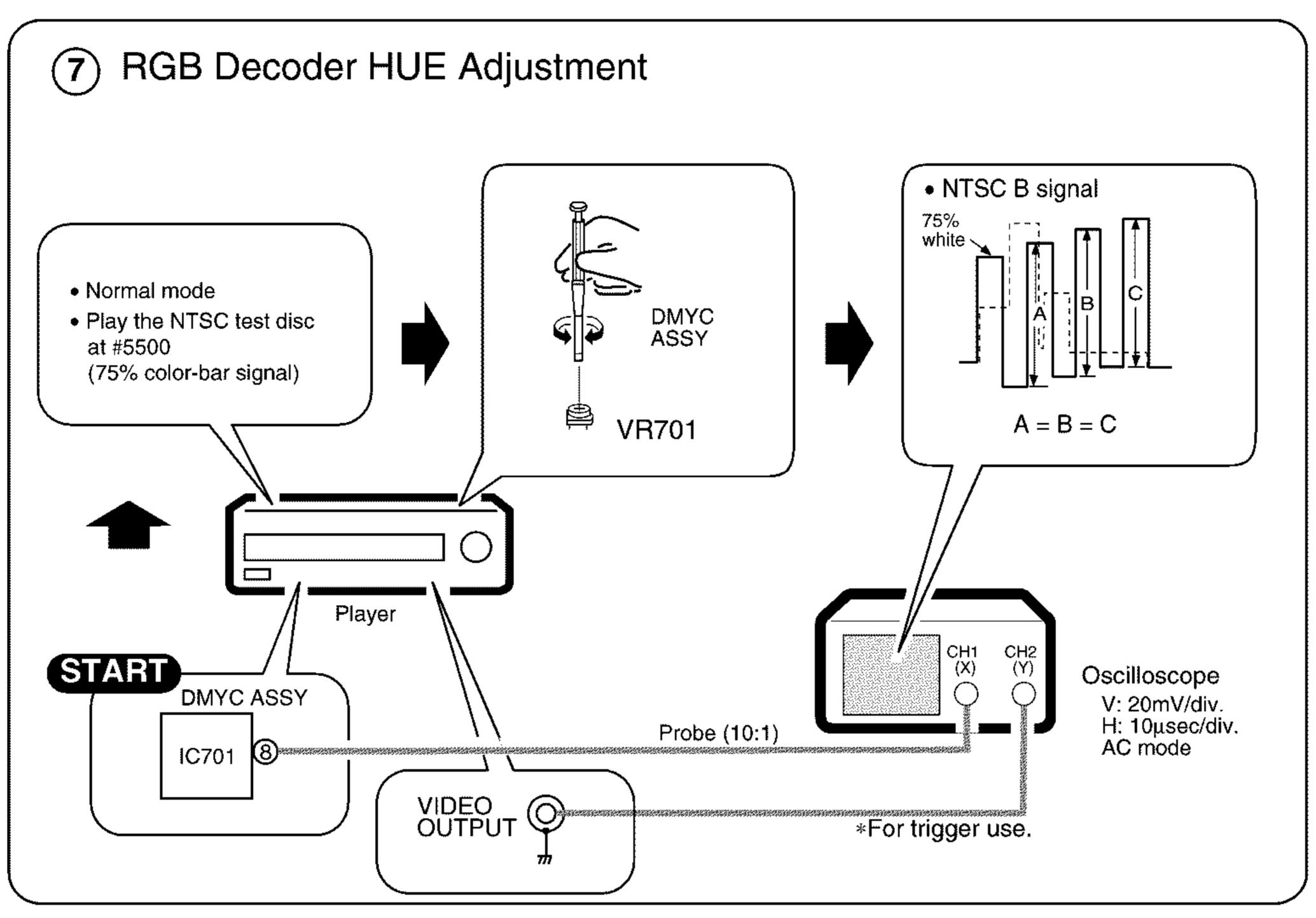


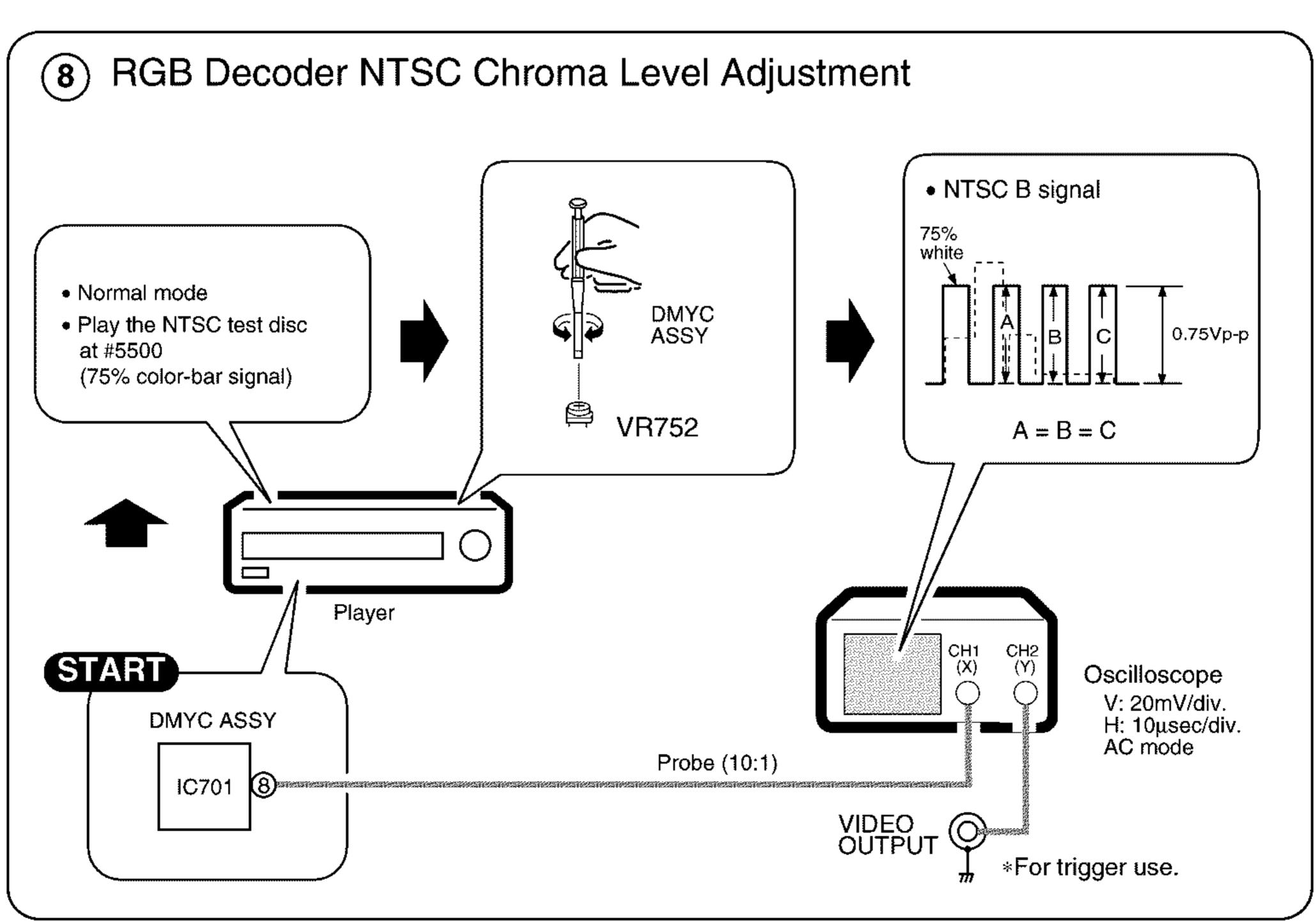


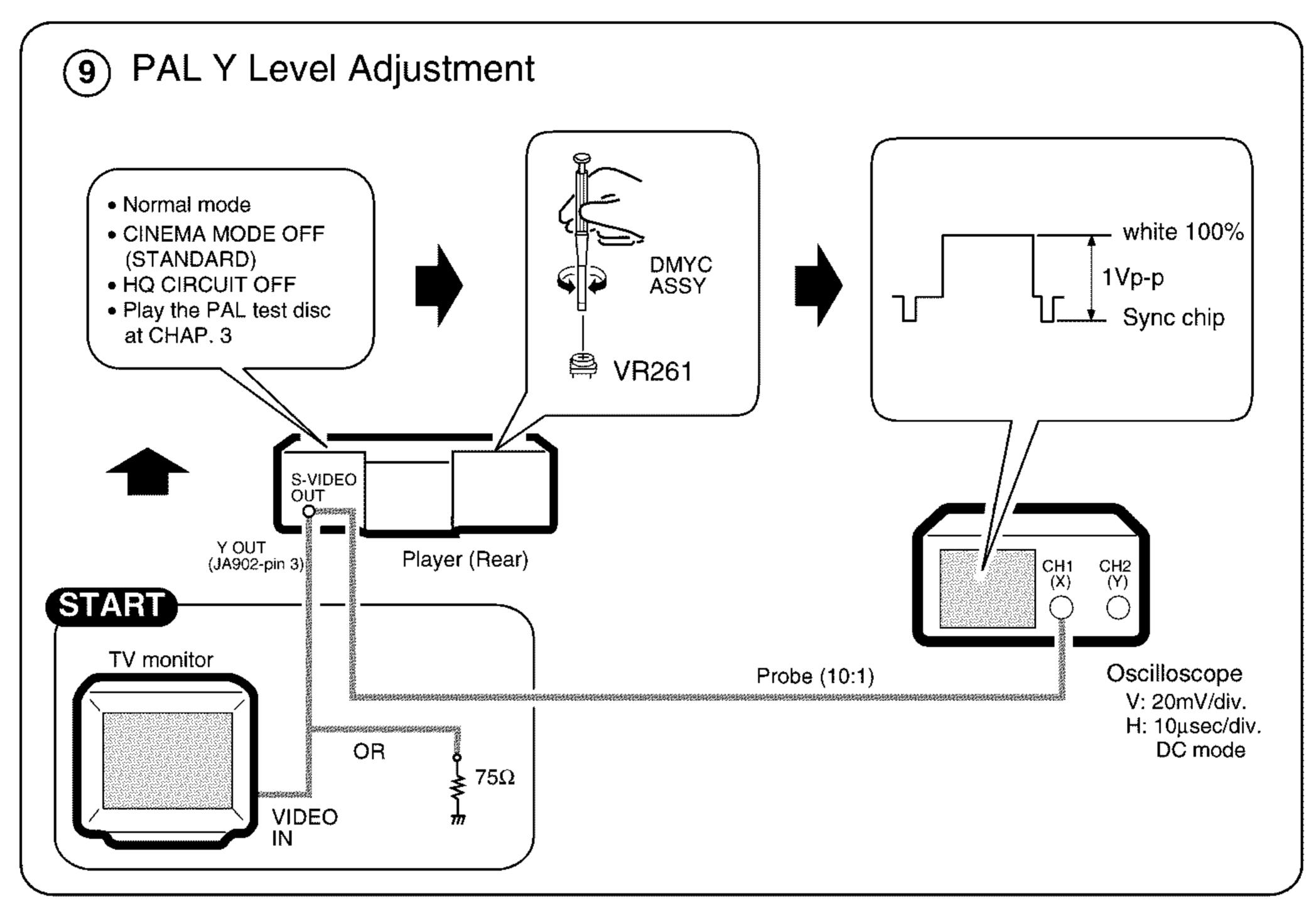


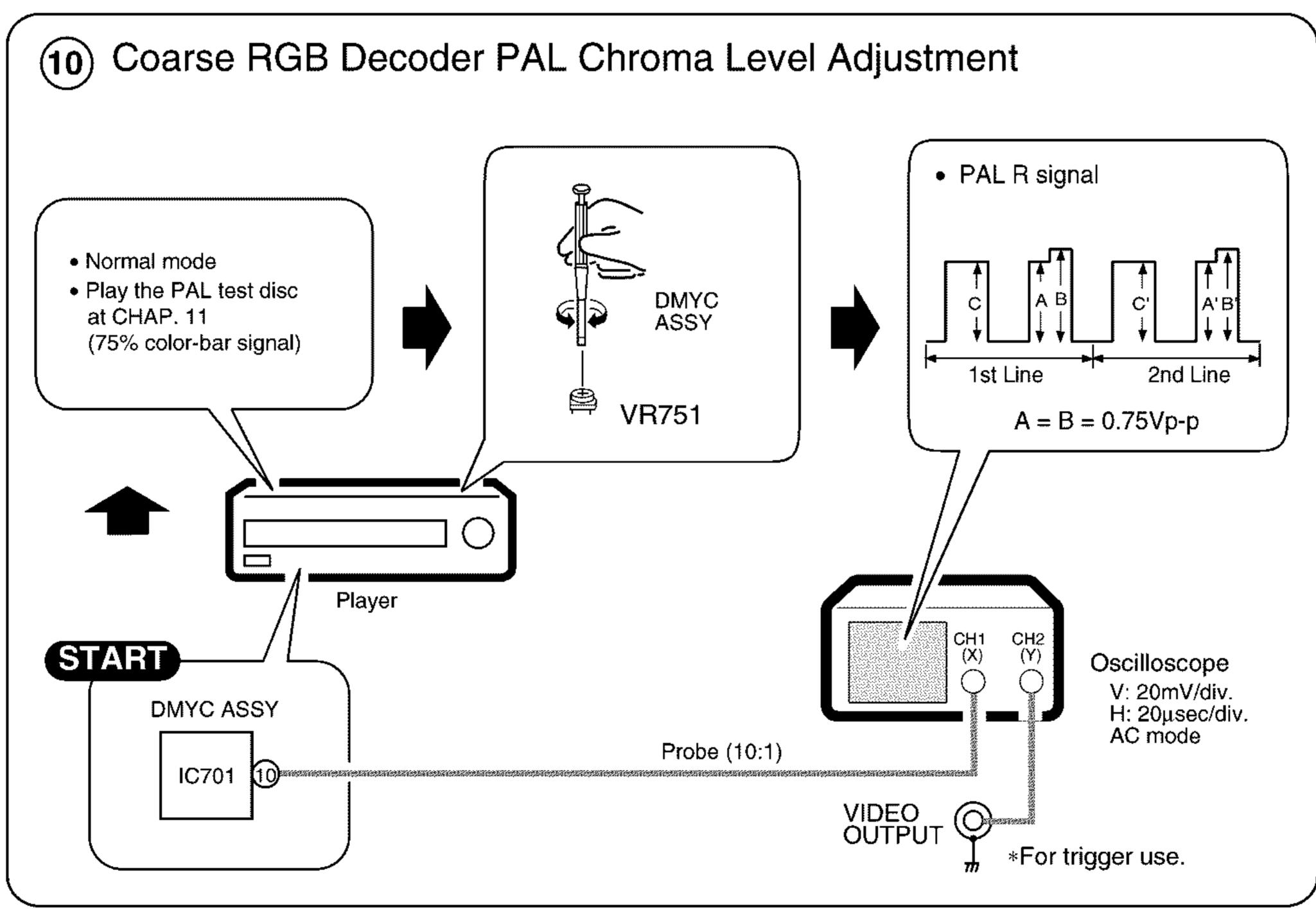


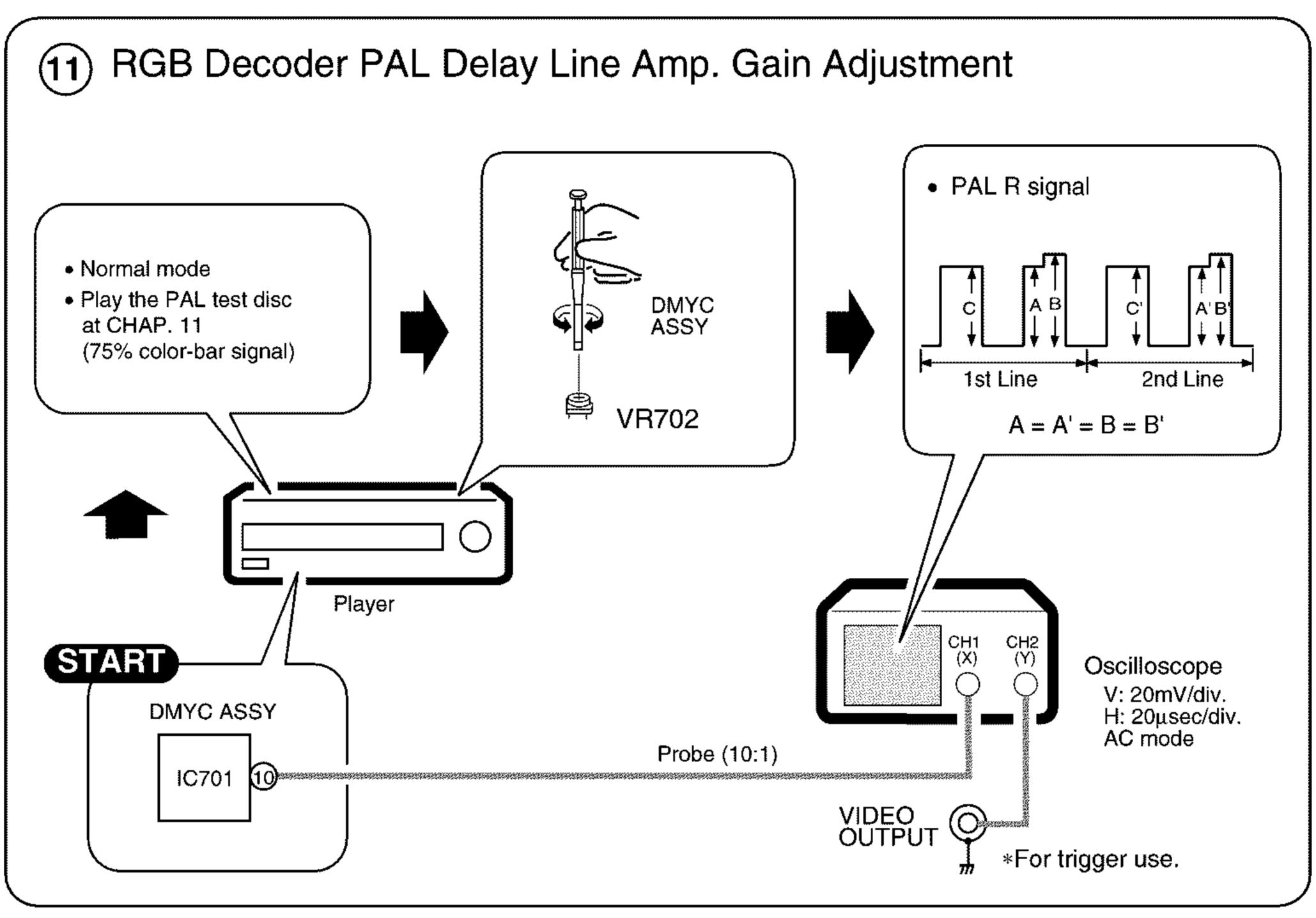


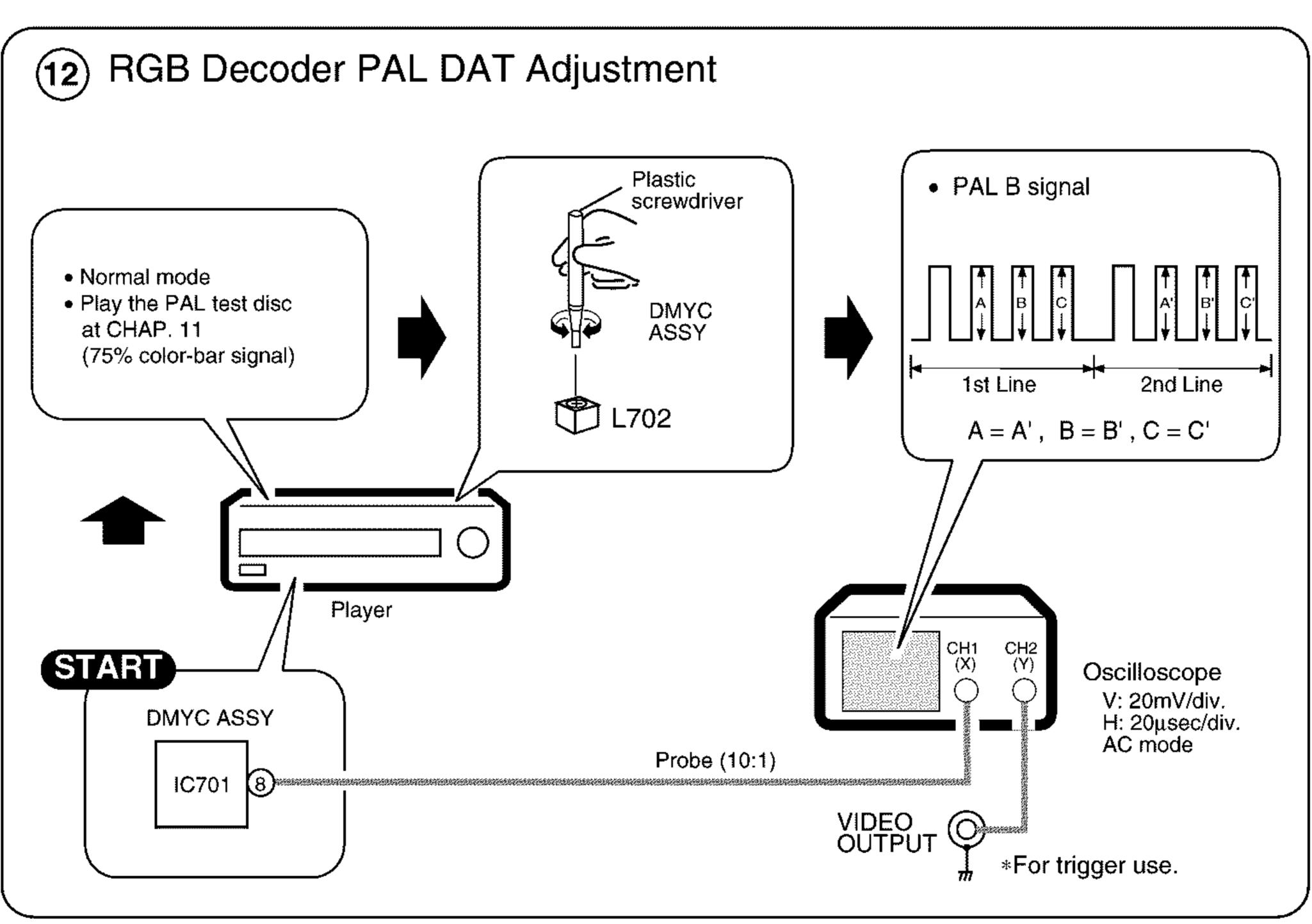


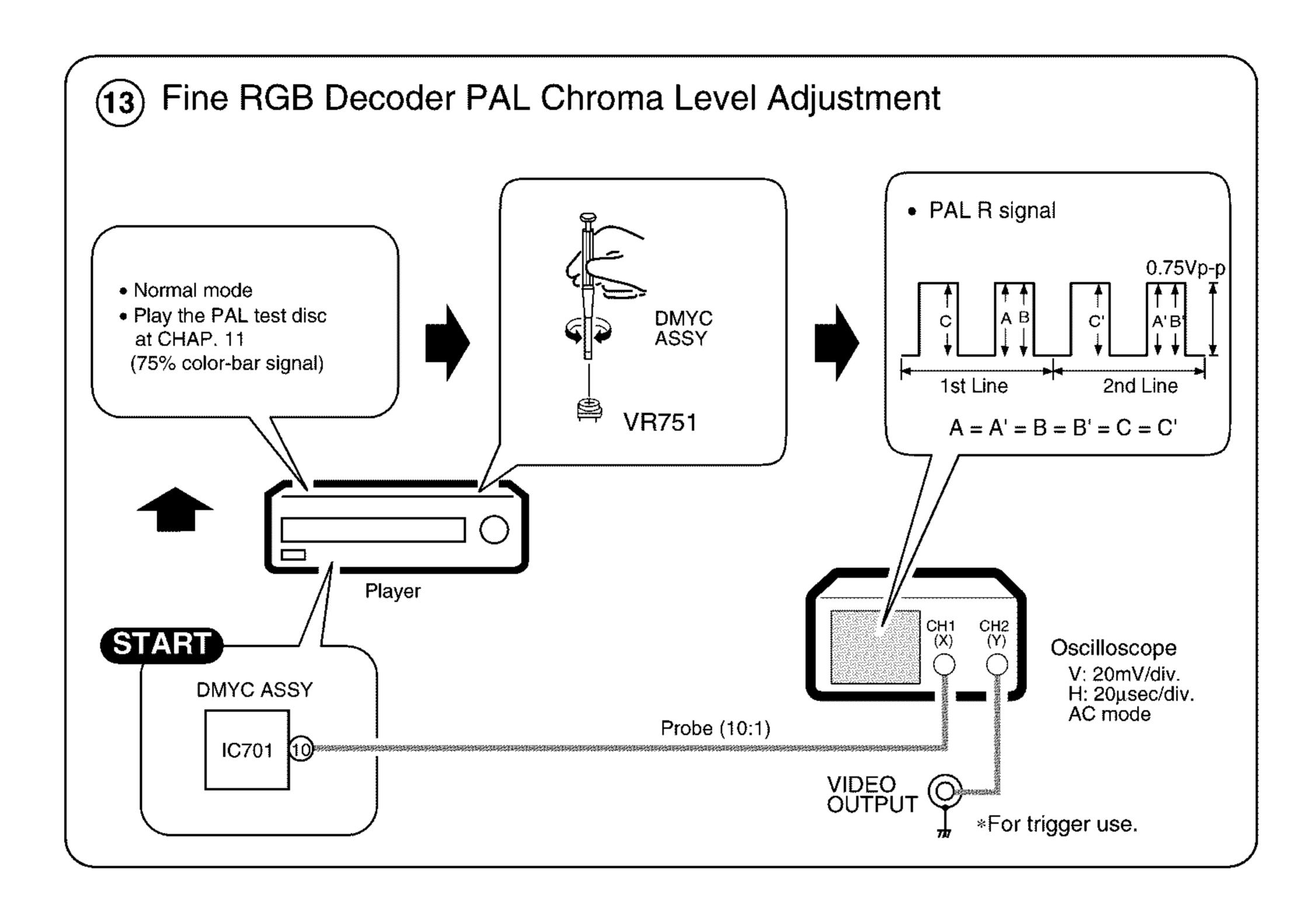


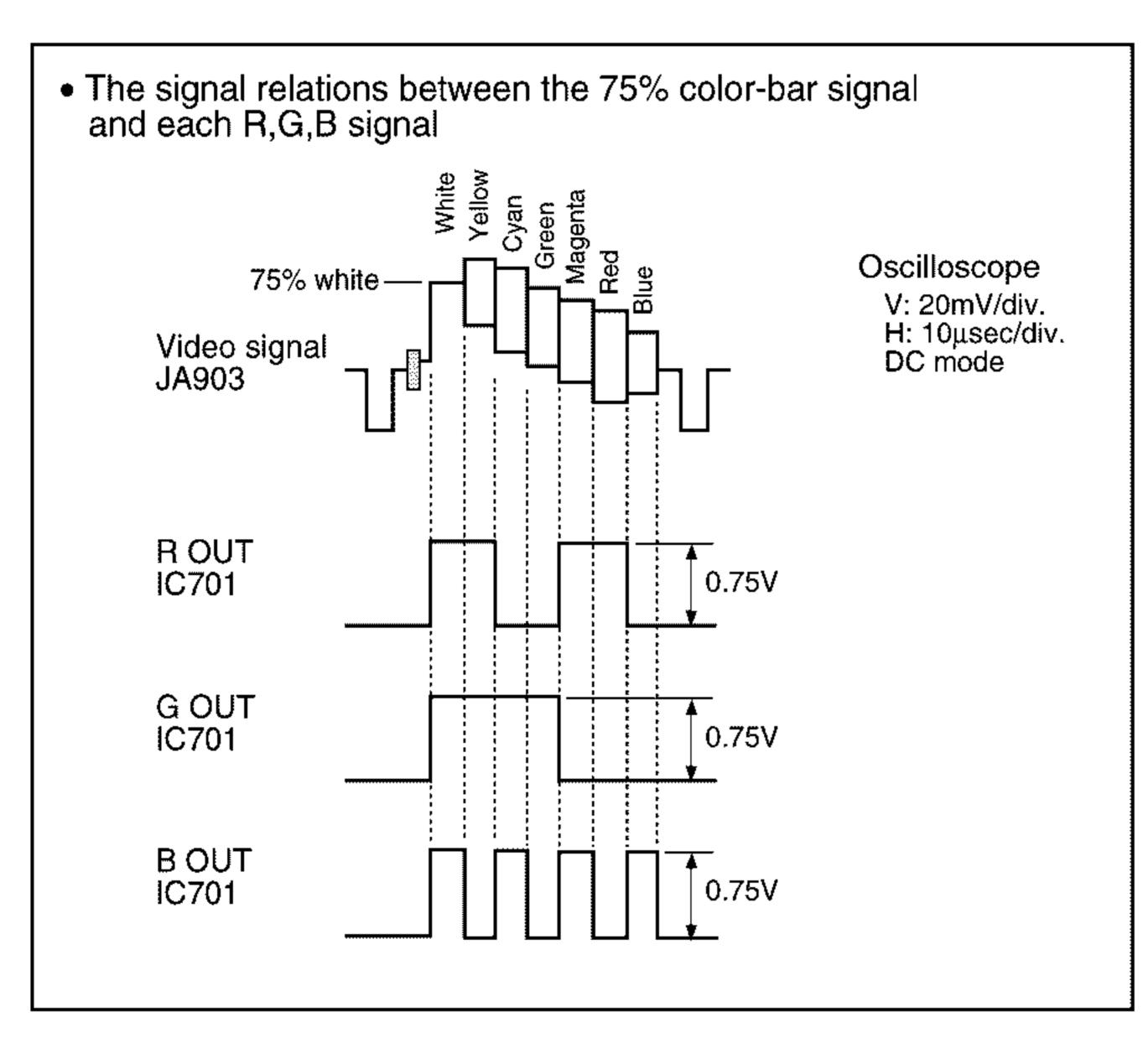




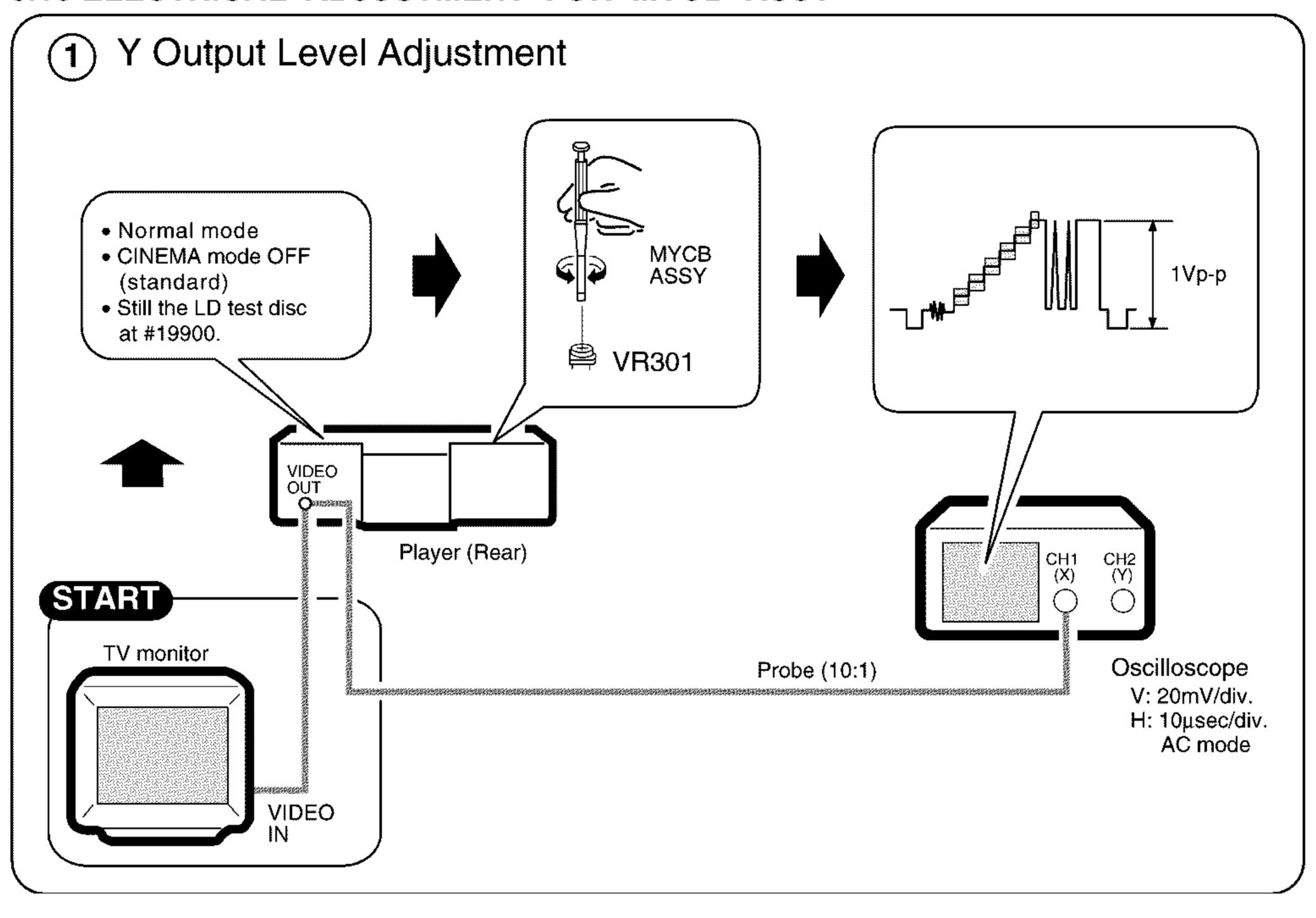






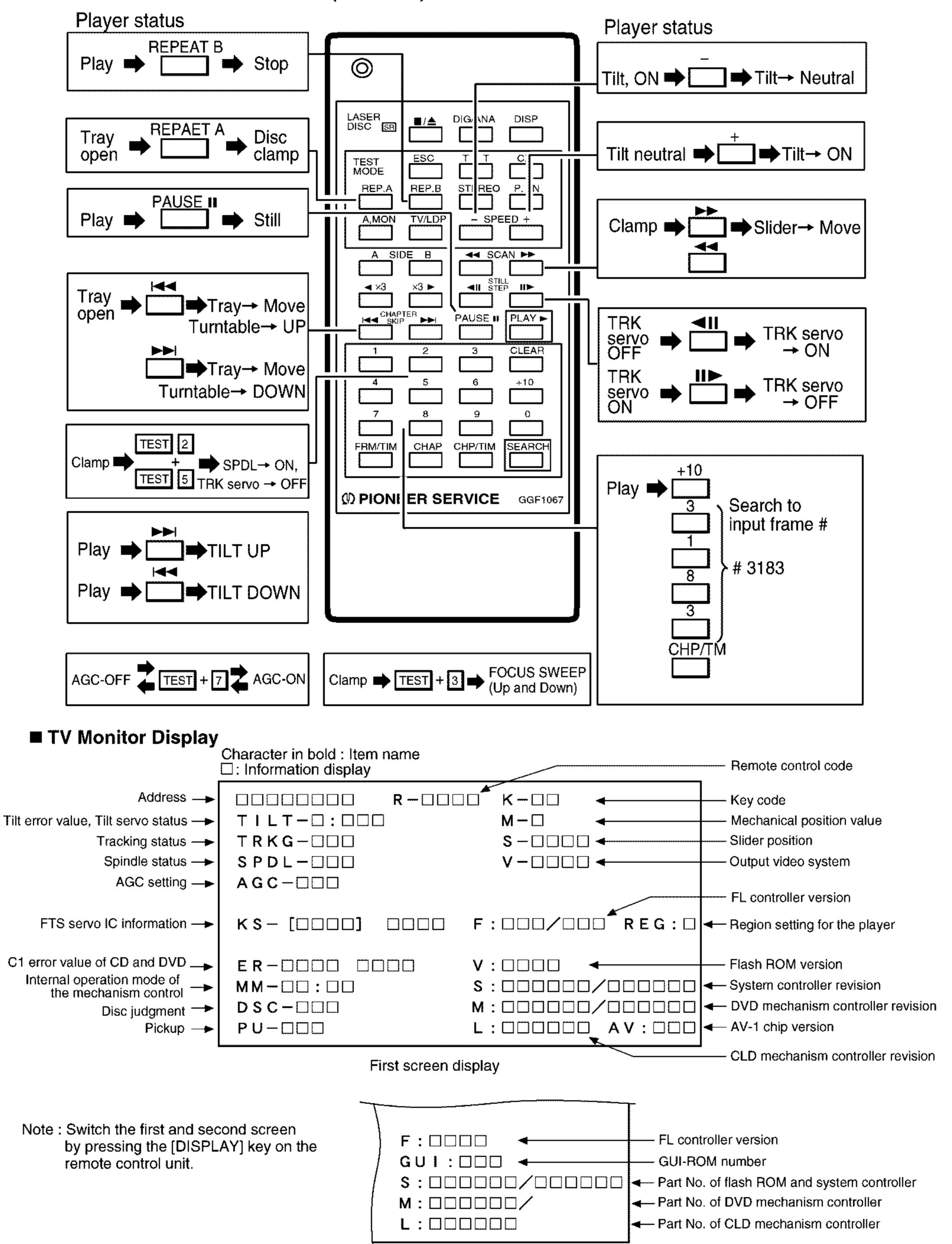


6.10 ELECTRICAL ADJUSTMENT FOR MYCB ASSY



6.11 OPERATIONS IN THE TEST MODE

■ Test Mode Remote Control Unit (GGF1067)



Second screen display (at lower right portion of the screen)

DVL-909

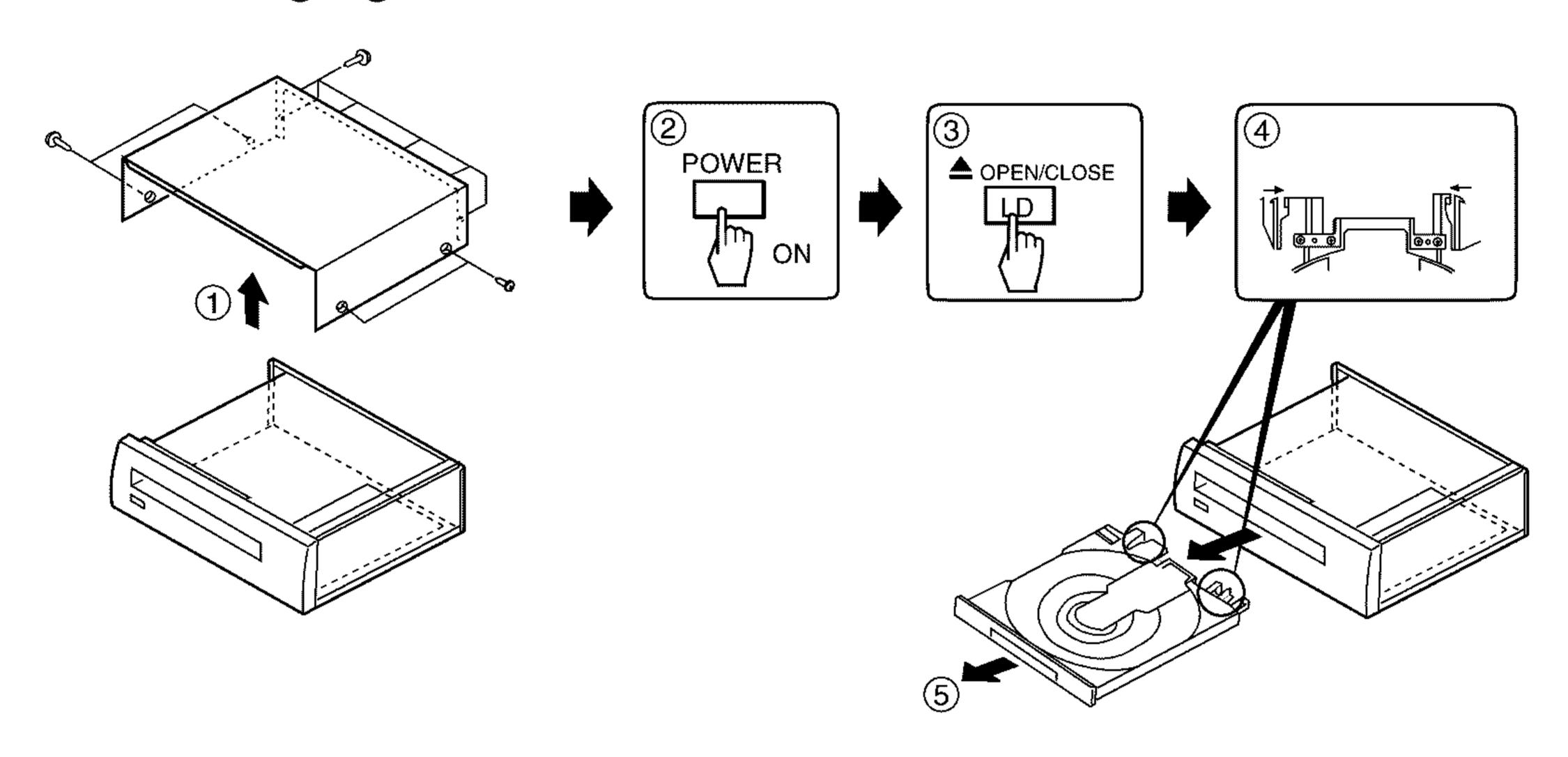
7. GENERAL INFORMATION

7.1 DISASSEMBLY/ASSEMBLY

(1) DISC TRAY

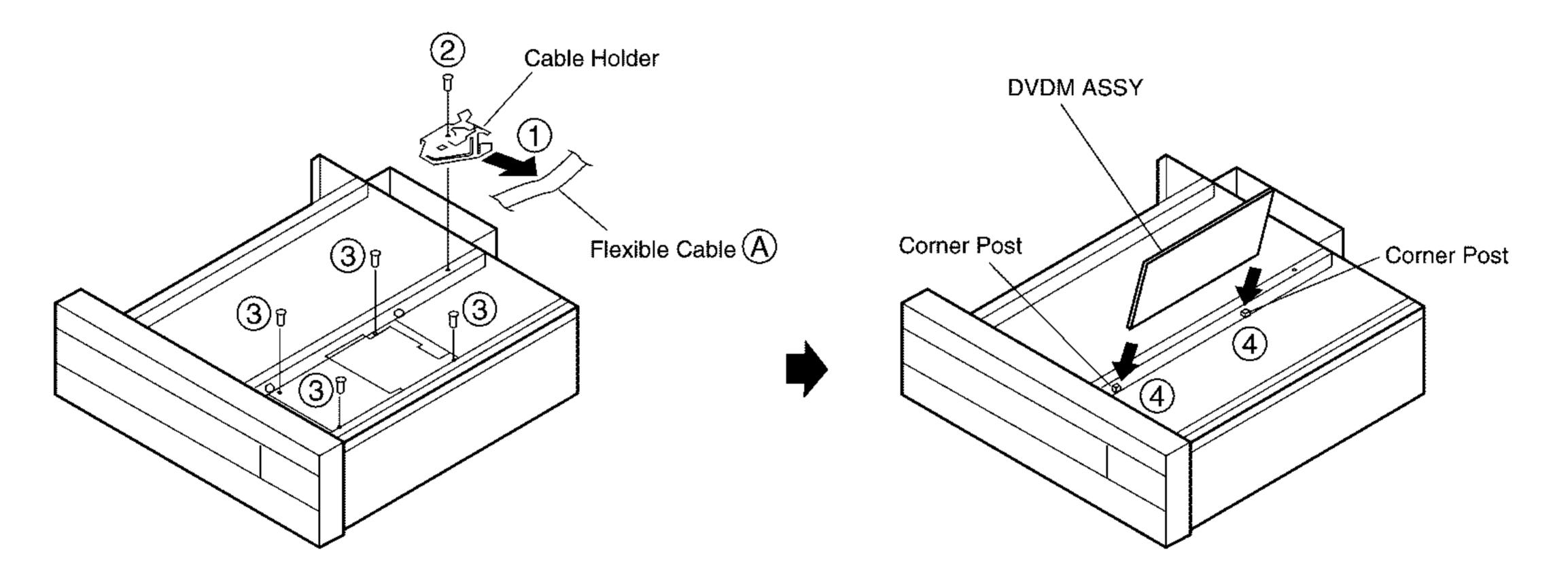
• Disassembly : $1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 5$

Assembly



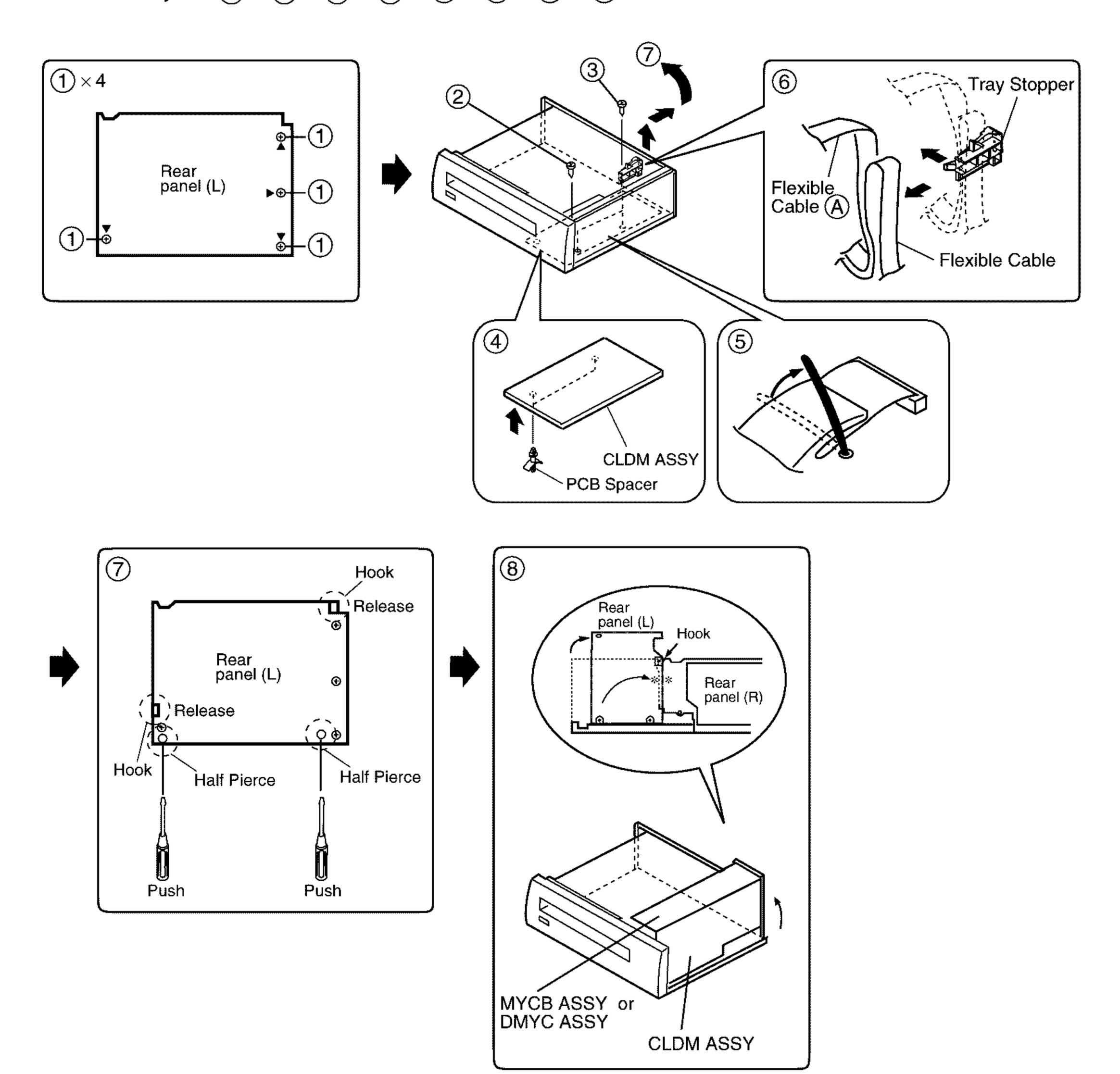
(2) DVDM ASSY

Disassembly : 1→2→3→4
 Assembly : 4→3→2→1

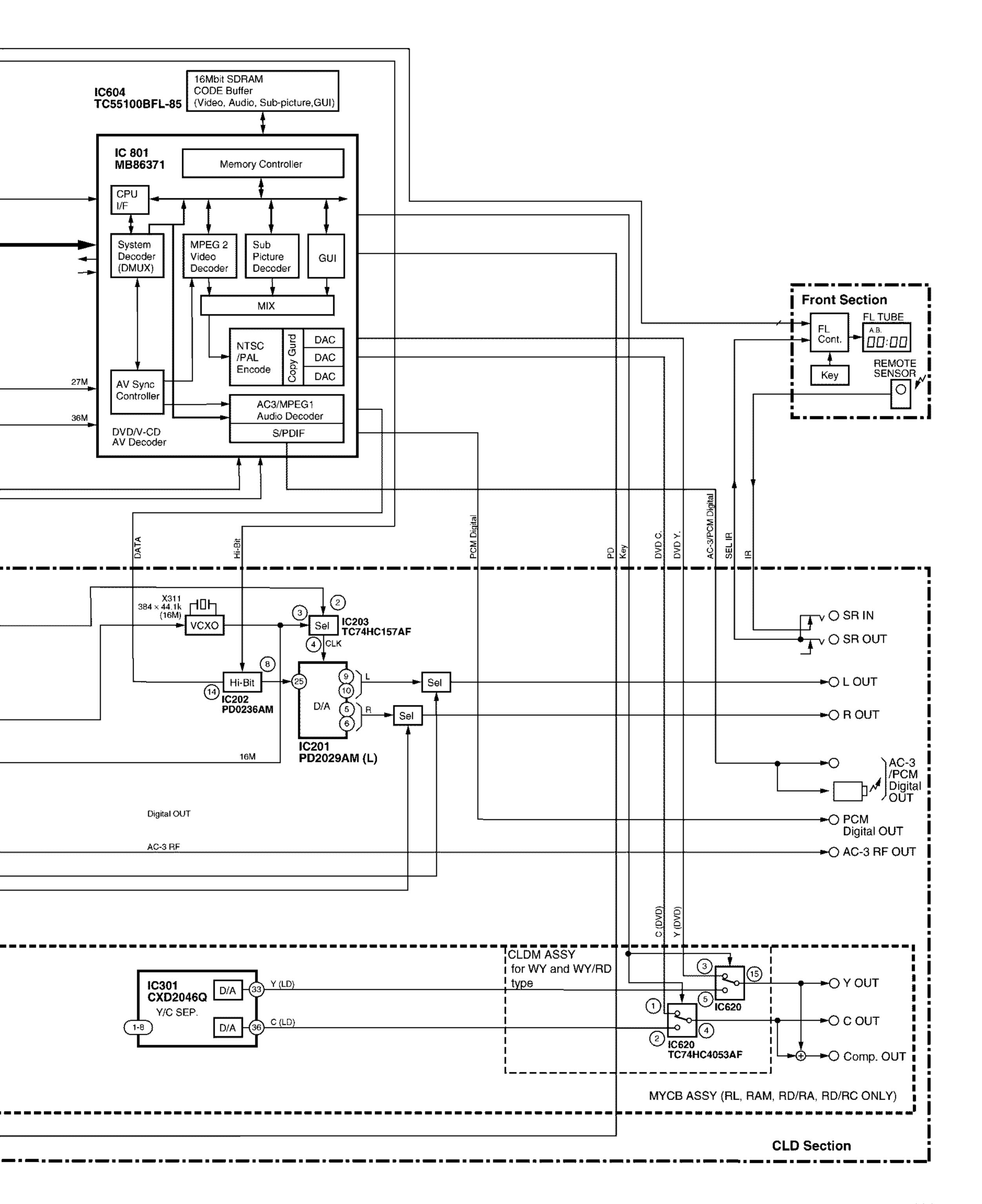


(3) CLDM ASSY

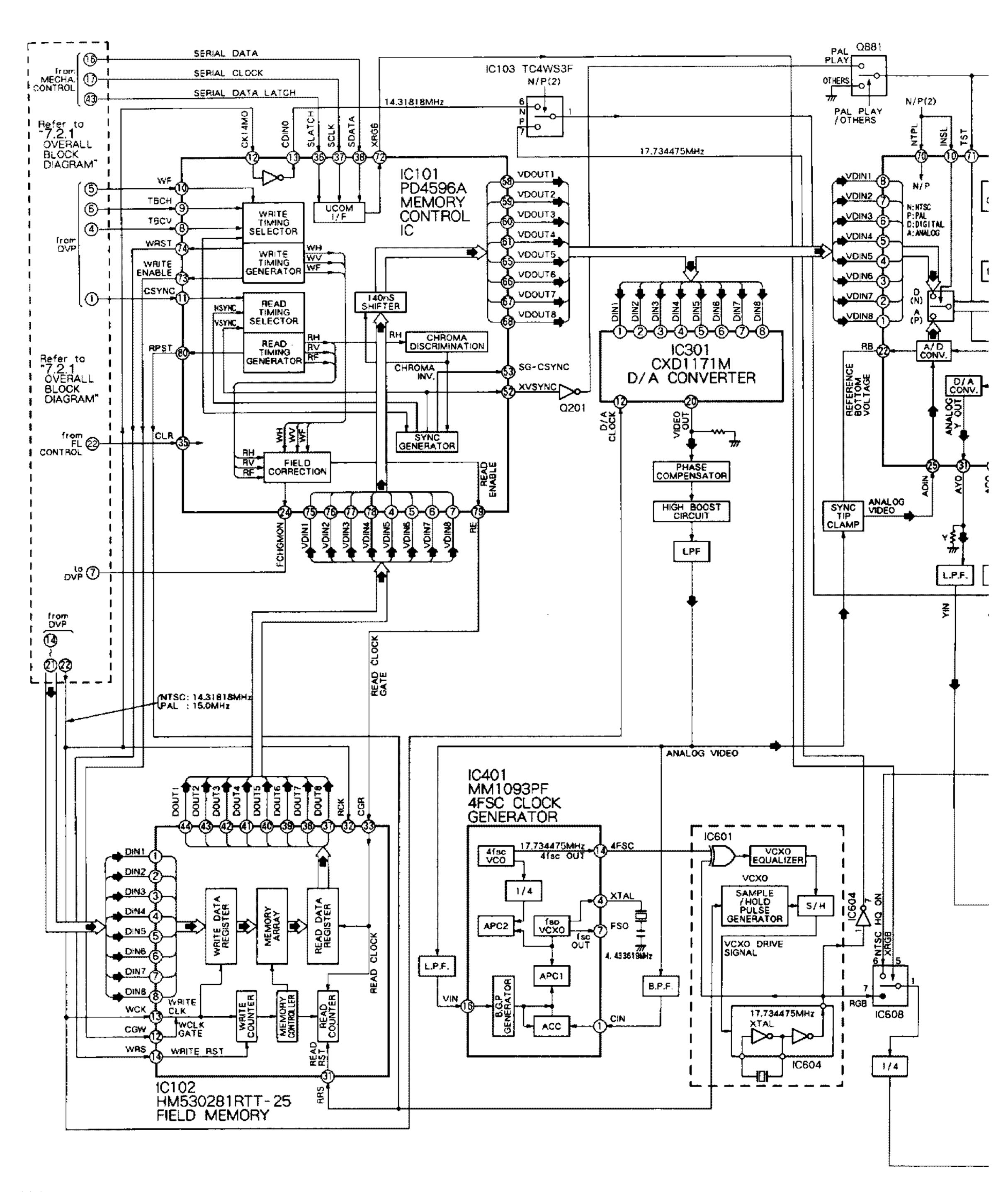
- Disassembly : (1) + (2) + (3) + (4) + (5) + (6) + (7) + (8)• Assembly : (8) + (7) + (6) + (5) + (4) + (3) + (2) + (1)

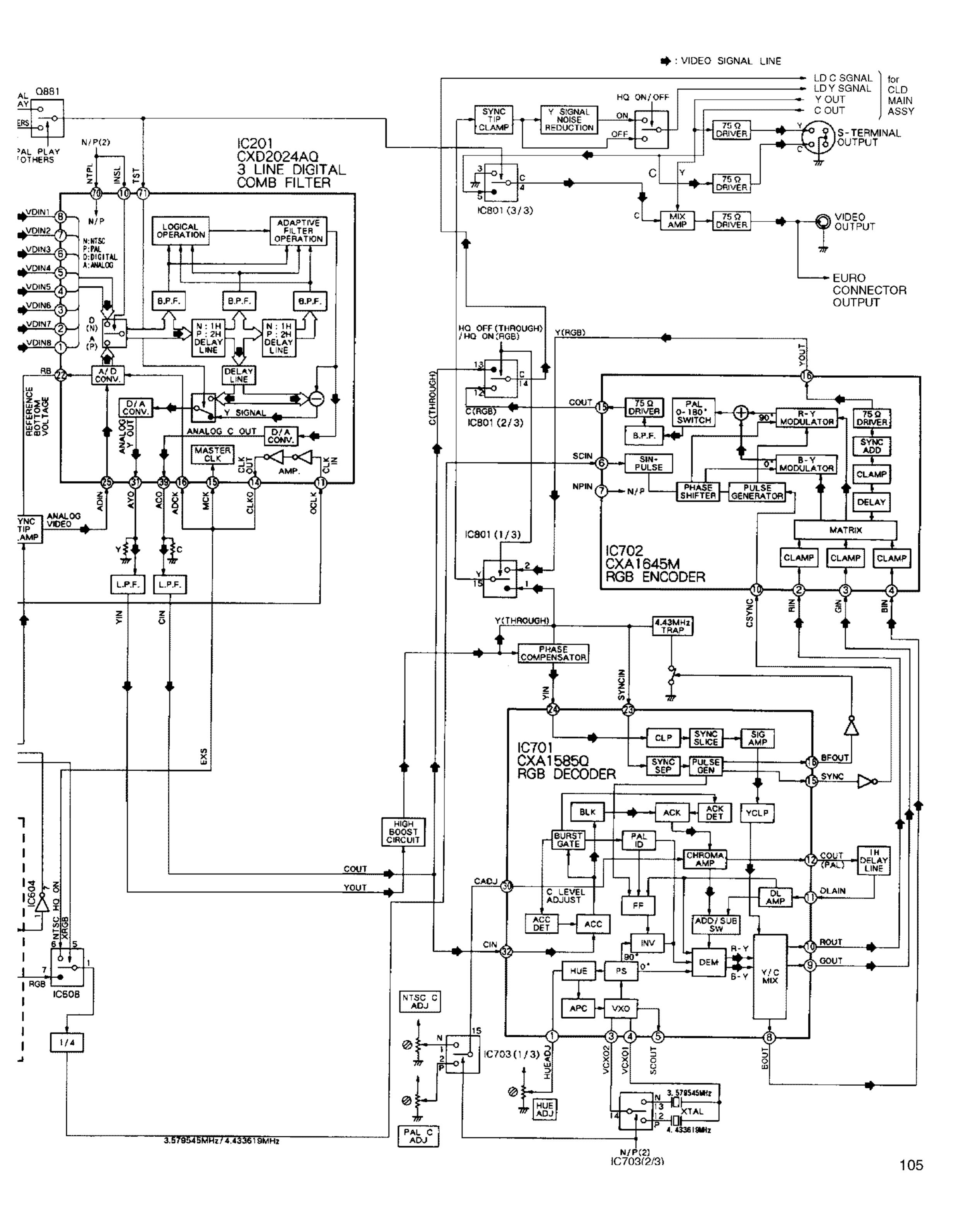


7.2 BLOCK DIAGRAM 7.2.1 OVERALL DIAGRAM IC 601 IC702 PD3381 4Mbit DRAM HMS14800CJ-7 System CPU (32bit RISC) VBR Buffer IC701 PD4833A LSI-11 DRAM I/F GUI ROM RAM (Bus Arbiter) ROM Sync CPU Demod ► A/D OEIC TA TA SPDL FA FA ECC & ID Reg. Motor Program Stream TE Slider Slider DMA Spindle CD-ROM GEN Control Sync gene Sub-code Buffer For CLD For DVD Sub-CPU 27M 16M CD PCM CD DSP Clock **CD Digital Out** Generator IC201 IC 813 IC78650E-P IC 501 CY2081SL 36M PD4889 EFM Decoder -611 Mechanism Control CPU Servo DSP SI, SO, SCK, 16M Mecha. SW DVD TILT ERR SLD DRV IC101 LOAD/TILT PD0260A2 SLD ERR IC205 **MOTOR** TC7WU04F LOAD/TILT DRV LD Mechanism Control 404 TURN DRV X312 384 × 48k (18M) LD TILT ERR TILT ERR Sel TURN MOTOR TRKG VCXO ERR IC901 FOCS LA9430 IC801 Servo IC802 Control IC LA9425 LC78625 (ASP) LD DATA **PSP DSP** EFM Decode Sel Analog L IC352 (25) (4) Analog R IC352: CA0002AM (for WY and WY/RD type) Analog Audio Phillips Code PA0061AM (except WY and WY/RD type) IC500 IC101 37**≻** A/D PD3212A PD6159B IC400 Memory Cont. (with DNR) (44-51) NTSC/PAL LA7134M SPDL DVP (65-72) (14-21) Cont **VDEM** IC102, IC103 MB81C1501PF IC202 15M VCXO 14M VCXO LC32464P-80 VRAM Field Memory WY and WY/RD type only **VCXO ERR**



7.2.2 DMYC BLOCK (WY and WY/RD TYPES ONLY)

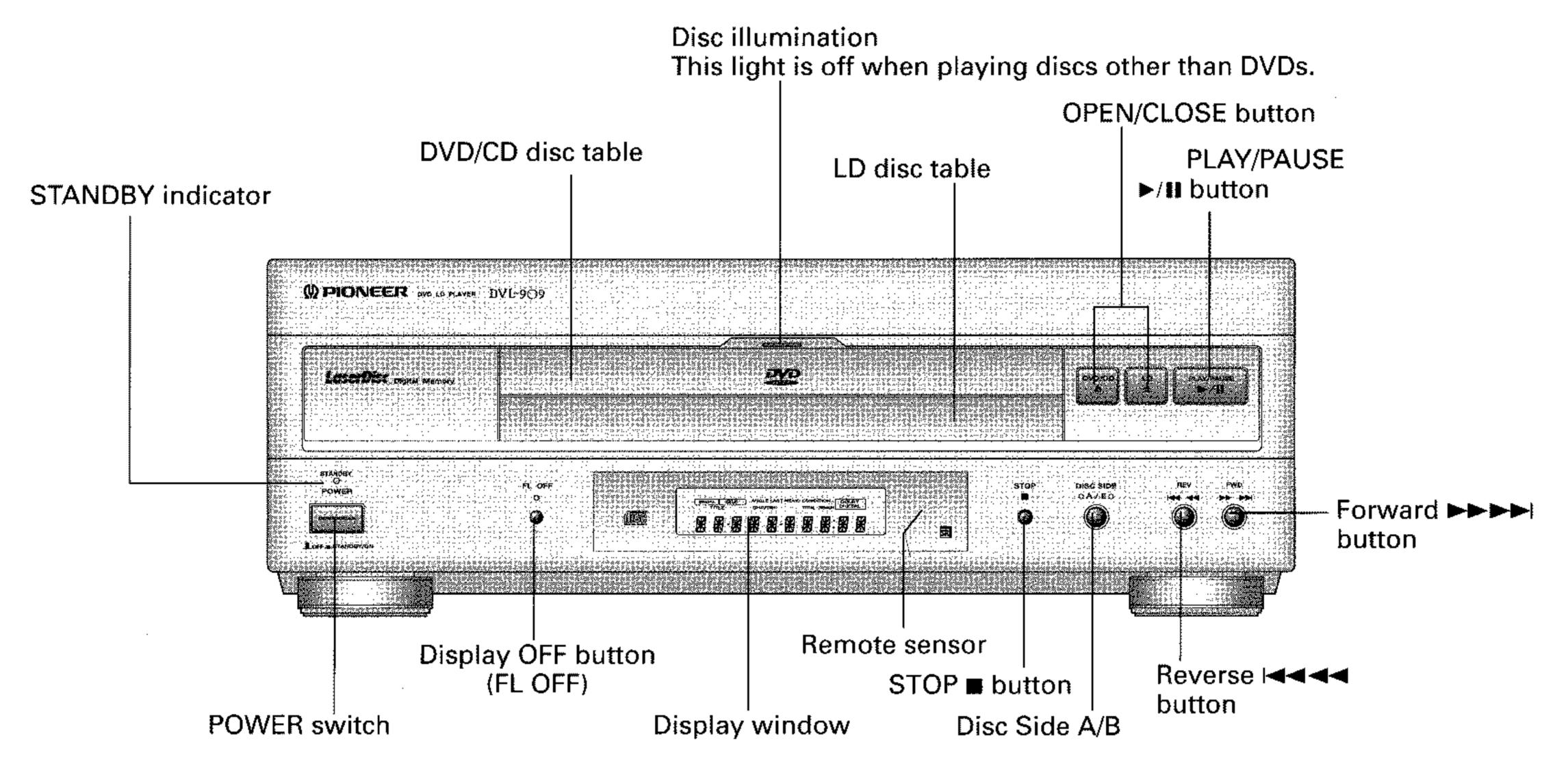




8. PANEL FACILITIES AND SPECIFICATIONS

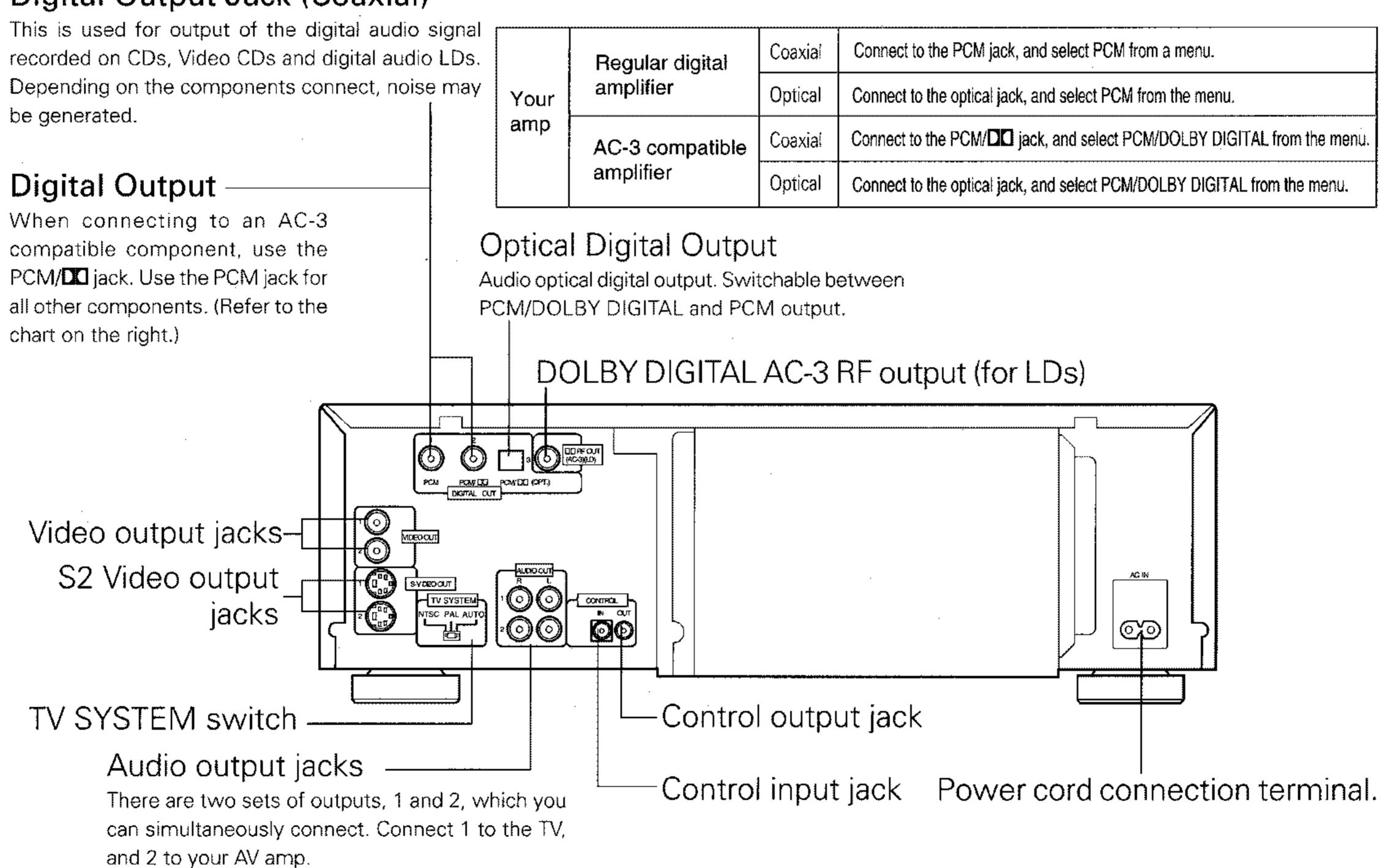
• For DVL-909/RD/RA,RD/RC, RAM and RL types

FRONT PANEL

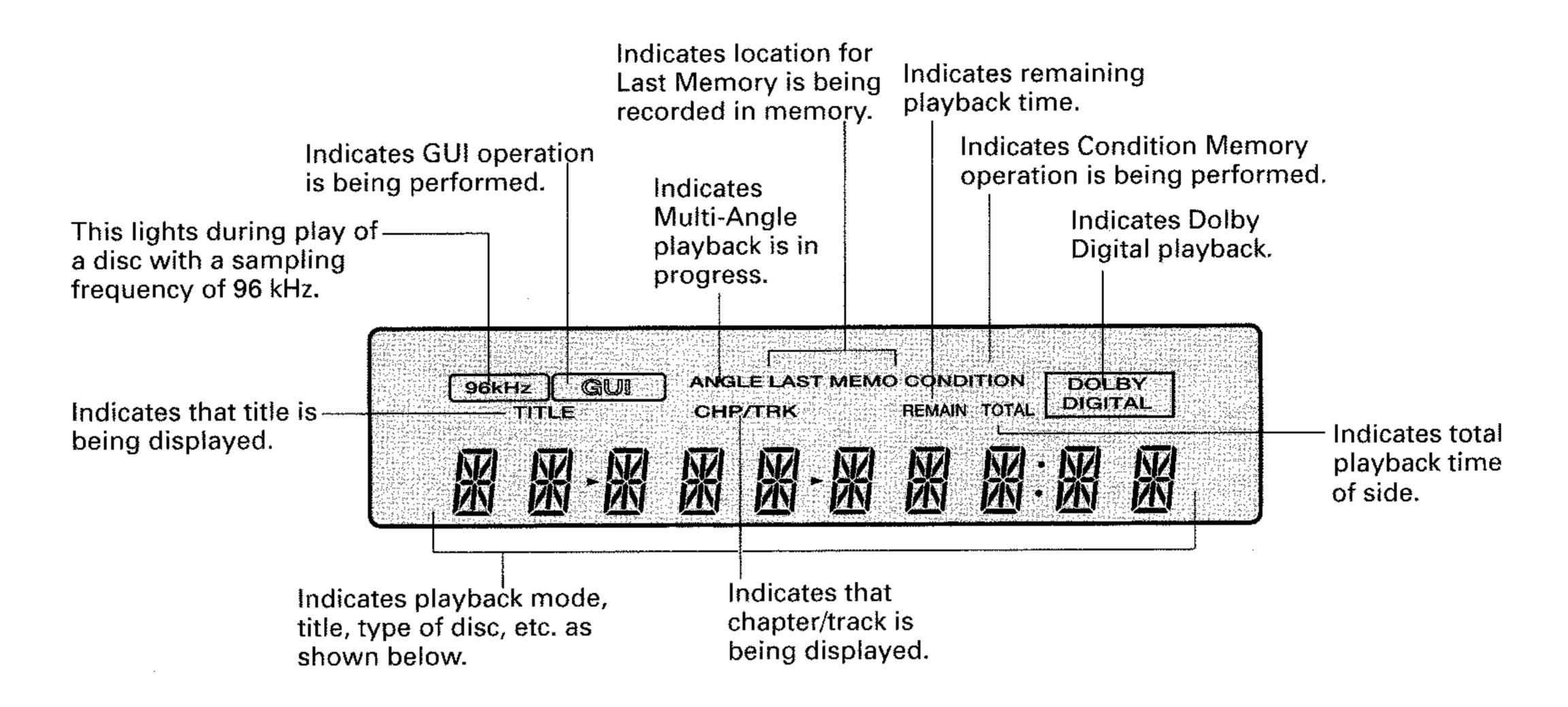


REAR PANEL

Digital Output Jack (Coaxial)

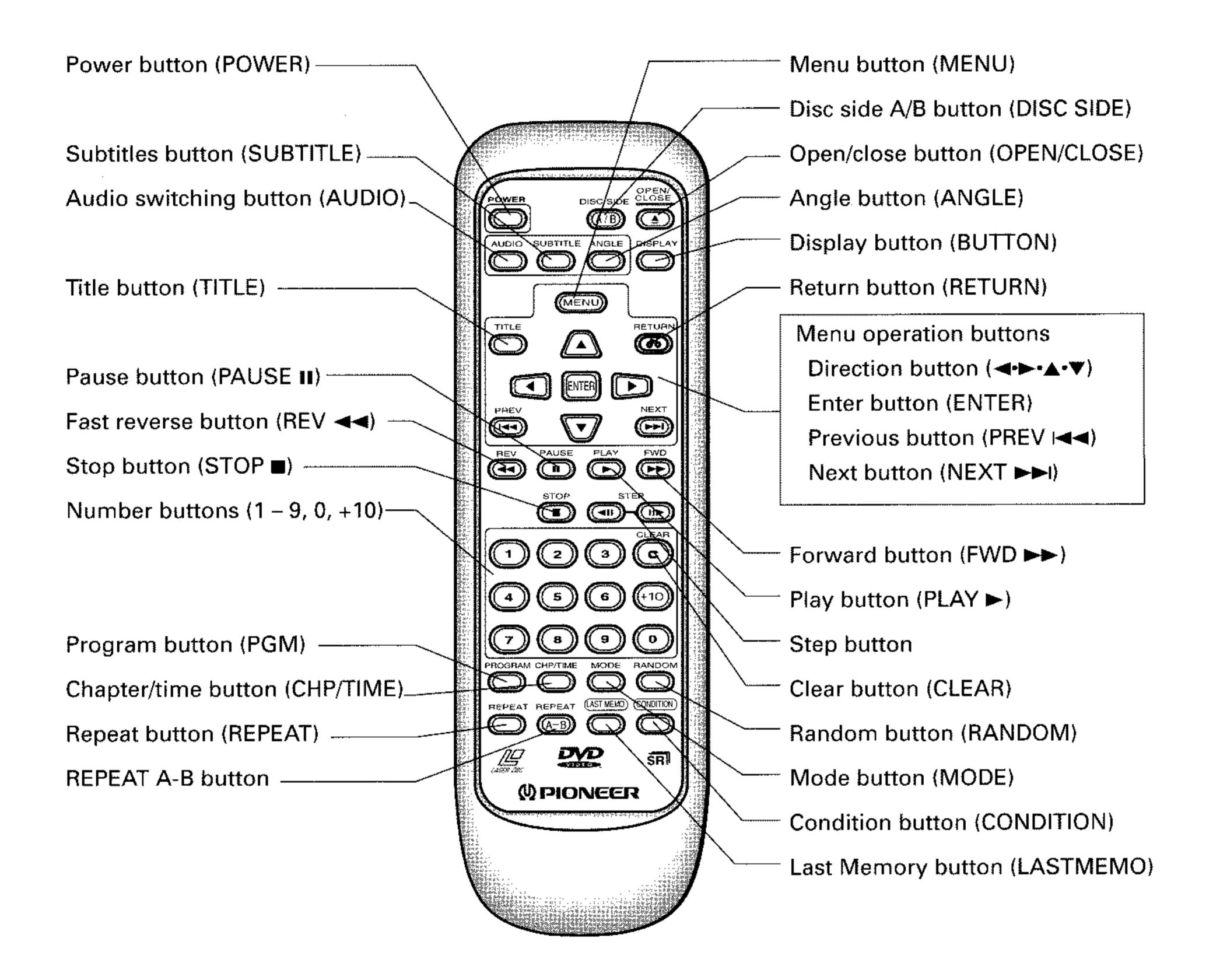


■ DISPLAY WINDOW



| | :Laser Disc | 5 T O P | :Stop |
|----------|---|-----------|----------------------|
| | :Compact disc | PAU5E | :Pause |
| | :CD video | | :No disc |
| | :DVD | [] F- F | :Power is turned off |
| | :Video CD | MENU | :Menu mode |
| PBC PLAY | :During Video CD PBC play | TITLE | :Title menu |
| OPEN | :Disc table is opening or is open | CHAPTER | :Chapter menu |
| CLOSE | :Disc table is closing | 5UB-TITLE | :Subtitle menu |
| | :Random playback | SETUP | :Set-up menu |
| PROGRAM | :Program mode | AUI IO | :Audio menu |
| F 5 M | :Program playback | | :Condition Memory |
| R_TRK | :Repeat mode | LASTIMEM | :Last Memory |
| R_A | :Start point of 2 point repeat playback | • | |
| R_AB | :2 point repeat playback | | |
| R III | :Repeat playback of the title | | |
| R_EHP | :Repeat playback of the chapter | | |
| R_5ID | :Both sides of LD repeat playback | | |
| STERED | :Stereo | | |
| PLRY | :Playback | | |

■ REMOTE CONTROL



■ SPECIFICATIONS

• For DVL-909/RD/RA,RD/RC, RAM and RL types

General

| System D | VD system, LaserVision DIsc system and |
|-----------------------|---|
| | Compact Disc digital audio system |
| Laser Semicono | ductor laser: wavelength 650 nm, 780 nm |
| Power requirements: | AC 110 – 127/220 – 240 V, 50/60 Hz |
| Power consumption | 57 W |
| Weight | 8.9 kg |
| Dimensions | 420 (W) x 464 (D) x 146 (H) mm |
| | (Not including protruding cables, etc.) |
| Operating temperature | +5°C to +35°C |
| Operating humidity | 5% to 85% (no condensation) |

Video Output (2 pairs)

S-Video Output level (2 pairs)

| Y (luminance) - Output level | 1 Vp-p (75 Ω) |
|------------------------------|------------------|
| C (color) - Output level | 286 mVp-p (75 Ω) |
| Jacks | S-VIDEO jacks |

Audio Output (2 pairs)

| Output level | |
|-----------------------------|---------------------------|
| During digital audio output | 200 mVrms (1 kHz, -20 dB) |
| Number of channels | |
| Jacks | |

Digital audio characteristics

| Frequency response | 4 Hz to 22 kHz (DVD fs: 48 kHz) |
|---------------------------|--|
| | 4 Hz to 20 kHz (LD, CD) |
| S/N ratio | 115 dB (EIAJ) |
| Dynamic range | 97 dB (EIAJ) |
| Total harmonic distortion | 0.003 % |
| Wow and flutter | Limit of measurement |
| | Limit of measurement (±0.001% W. PEAK) or lower (EIAJ) |
| | |

Other Terminals

| Optical digit | al output (PCM/D |]) Optical | digital jack |
|---------------|-------------------|--|--------------|
| Coaxial digit | al output (PCM/DI | 3) | RCA jack |
| | | · | |
| | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| | | Mir | - |
| | | Mir | • |

Accessories

| Remote control unit | . 1 |
|--------------------------------------|-----|
| AA/R6P dry cell batteries | . 2 |
| Audio cord | |
| Video cord | 1 |
| Power cord | 1 |
| Operating Instructions | . 1 |
| Warranty card | |
| (With region number "1" models only) | |

NOTE:

The specifications and design of this product are subject to change without notice, due to improvement.

"Dolby, Digital (AC-3)" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

■ ACCESSORIES

